



ENERGY DIRECTORATE

TYPE TESTED INVERTERS/EQUIPMENT IN TERMS OF NRS 097-2-1

27 October 2022

Make	Model	Inverter / Equipment type	Test House	Certificate date	Valid until	Report number	Certificate Compliance number	NRS 097-2-1: 2017 Ed2 Certification	NRS 097-2-1: 2017 Ed 2.1 Certification	Comments
ABB	TRIO-TM-50.0-400	Grid-tied PV inverter	TUV Rheinland	2019/07/15		28110633 031	AK 60141064 0001	Yes		Inverter may only be used in plants according to Category A3: 100 kVA - 1MVA and connection to the grid via an external customer MV/LV AC transformer.
ABB	PVS - 50 - TL	Grid-tied PV inverter	TUV Rheinland	2020/01/22		28111830 029	AK 60146346 0001	Yes		Inverter may only be used in plants according to Category A3: 100 kVA - 1MVA and connection to the grid via an external customer MV/LV AC transformer.
ABB	PVS - 50 - TL - S	Grid-tied PV inverter	TUV Rheinland	2020/01/22		28111830 029	AK 60146346 0001	Yes		
ABB	PVS - 50 - TL - SX	Grid-tied PV inverter	TUV Rheinland	2020/01/22		28111830 029	AK 60146346 0001	Yes		
ABB	PVS - 50 - TL - SX2	Grid-tied PV inverter	TUV Rheinland	2020/01/22		28111830 029	AK 60146346 0001	Yes		
ABB	PVS-100-TL	Grid-tied PV inverter	TUV Rheinland	2019/11/29		28110923 035	AK 60144898 0001	Yes		Inverter may only be used in plants according to Category A3: 100 kVA - 1MVA and connection to the grid via an external customer MV/LV AC transformer.
ABB	REACT2-UNO-3.6-TL	Grid-tied PV inverter	TUV Rheinland	2018/11/07		28111587 003	AK 60134062 0001	Yes		A maximum of three REACT2 -BATT may be used in combination with this inverter unit
ABB	REACT2-UNO-5.0-TL	Grid-tied PV inverter	TUV Rheinland	2018/11/07		28111587 003	AK 60134062 0001	Yes		Network and system grid protection voltage and frequency relay only in accordance with DIN VDE 0126-1-1:2013 and VDE-AR-N 4105:2011. Must be programmed to NRS 097-2-1 or the applicable South African Grid Codes and may only be used in conjunction with approved NRS 097-2-1 type tested inverters on this list.
ABB	CM-UFD.M31 relay	Network & system relay	TUV SÜD	2014/11/06		F4-44254-48401-01 (Edition 2)	D8 14 10 44254 006	No	No	
Afore	HNS3000HS	Hybrid PV inverter grid-tied	Dekra	2020/09/17		6076139 50	6076139.01AOC	Yes	Yes	
Afore	HNS3600HS	Hybrid PV inverter grid-tied	Dekra	2020/09/17		6076139 50	6076139.01AOC	Yes	Yes	
Afore	HNS4000HS	Hybrid PV inverter grid-tied	Dekra	2020/09/17		6076139 50	6076139.01AOC	Yes	Yes	
Afore	HNS4600HS	Hybrid PV inverter grid-tied	Dekra	2020/09/17		6076139 50	6076139.01AOC	Yes	Yes	
Afore	HNS5000HS	Hybrid PV inverter grid-tied	Dekra	2020/09/17		6076139 50	6076139.01AOC	Yes	Yes	
Afore	HNS5500HS	Hybrid PV inverter grid-tied	Dekra	2020/09/17		6076139 50	6076139.01AOC	Yes	Yes	
Afore	HNS6000HS	Hybrid PV inverter grid-tied	Dekra	2020/09/17		6076139 50	6076139.01AOC	Yes	Yes	
Afore	HNS3000HS-HV	Hybrid PV inverter grid-tied	Dekra	2020/09/18		6076141 50	6076141.01AOC V1.1	Yes	Yes	
Afore	HNS3600HS-HV	Hybrid PV inverter grid-tied	Dekra	2020/09/18		6076141 50	6076141.01AOC V1.1	Yes	Yes	
Afore	HNS4000HS-HV	Hybrid PV inverter grid-tied	Dekra	2020/09/18		6076141 50	6076141.01AOC V1.1	Yes	Yes	
Afore	HNS4600HS-HV	Hybrid PV inverter grid-tied	Dekra	2020/09/18		6076141 50	6076141.01AOC V1.1	Yes	Yes	
Afore	HNS5000HS-HV	Hybrid PV inverter grid-tied	Dekra	2020/09/18		6076141 50	6076141.01AOC V1.1	Yes	Yes	
Afore	HNS5500HS-HV	Hybrid PV inverter grid-tied	Dekra	2020/09/18		6076141 50	6076141.01AOC V1.1	Yes	Yes	
Afore	HNS6000HS-HV	Hybrid PV inverter grid-tied	Dekra	2020/09/18		6076141 50	6076141.01AOC V1.1	Yes	Yes	
Atess	HPS 30	Hybrid PV inverter grid-tied	Shenzhen Balun	2020/10/09		BL-DG2080269-B01	BL-DG2080269D01	Yes		The maximum DC voltage is depended on PV array and may not exceed 820 V as declared by the inverter manufacturer.
Atess	HPS 50	Hybrid PV inverter grid-tied	Shenzhen Balun	2020/10/09		BL-DG2080269-B01	BL-DG2080269D01	Yes		The maximum DC voltage is depended on PV array and may not exceed 820 V as declared by the inverter manufacturer.
Atess	HPS100	Hybrid PV inverter grid-tied	Shenzhen Balun	2020/10/09		BL-DG2080269-B02	BL-DG2080269D02	Yes		The maximum DC voltage is depended on PV array and may not exceed 820 V as declared by the inverter manufacturer.
Atess	HPS120	Hybrid PV inverter grid-tied	Shenzhen Balun	2020/10/09		BL-DG2080269-B02	BL-DG2080269D02	Yes		The maximum DC voltage is depended on PV array and may not exceed 820 V as declared by the inverter manufacturer.
Atess	HPS150	Hybrid PV inverter grid-tied	Shenzhen Balun	2020/10/09		BL-DG2080269-B02	BL-DG2080269D02	Yes		The maximum DC voltage is depended on PV array and may not exceed 820 V as declared by the inverter manufacturer.
Alpha	SMILES-INV	Hybrid PV inverter grid-tied	Bureau Veritas	2019/03/22		ABYD-19JA1440FCSPH	U19-0178	Yes		
Alpha	Storion-SMILE-B3	Battery based inverter grid-tied	Bureau Veritas	2020/08/19		ABYD-ESH-P20071636	U20-0680	Yes		
Canadian Solar	CSI-20, 25 and 30KTL-GI-FL	Grid-tied PV inverter	TUV Rheinland	2018/05/07		50128276 002	AK 50406933 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Canadian Solar	CSI-40KTL-GI-FL	Grid-tied PV inverter	TUV Rheinland	2018/05/03		50131287 002	AK 50406675 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Canadian Solar	CSI-50KTL-GI	Grid-tied PV inverter	TUV Rheinland	2018/05/03		50131287 002	AK 50406675 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Canadian Solar	CSI-25K-T400GL02-E	Grid-tied PV inverter	TUV Rheinland	2020/04/13		50344275 002	AK 50464349 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Canadian Solar	CSI-30K-T400GL02-E	Grid-tied PV inverter	TUV Rheinland	2020/04/13		50344275 002	AK 50464349 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Canadian Solar	CSI-33K-T400GL02-E	Grid-tied PV inverter	TUV Rheinland	2020/04/13		50344275 002	AK 50464349 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Canadian Solar	CSI-36K-T400GL02-E	Grid-tied PV inverter	TUV Rheinland	2020/04/13		50344275 002	AK 50464349 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Canadian Solar	CSI-40K-T400GL02-E	Grid-tied PV inverter	TUV Rheinland	2020/04/13		50344275 002	AK 50464349 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Canadian Solar	CSI 75 K-T400GL02-E	Grid-tied PV inverter	TUV Rheinland	2020/10/21		50376758 002	AK 50483986 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Canadian Solar	CSI 100 K-T400GL02-E	Grid-tied PV inverter	TUV Rheinland	2020/10/21		50376758 002	AK 50483986 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Canadian Solar	CSI 110 K-T400GL02-E	Grid-tied PV inverter	TUV Rheinland	2020/10/21		50376758 002	AK 50483986 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Canadian Solar	CSI-50K-T400GL03-E	Grid-tied PV inverter	TUV Rheinland	2021/08/27		CN21F7XT 0002	AK 50516584 0001	Yes	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Canadian Solar	CSI-60K-T400GL03-E	Grid-tied PV inverter	TUV Rheinland	2021/08/27		CN21F7XT 0002	AK 50516584 0001	Yes	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Canadian Solar	CSI-60K-T500GL03-E	Grid-tied PV inverter	TUV Rheinland	2021/08/27		CN21F7XT 0002	AK 50516584 0001	Yes	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Canadian Solar	CSI-70K-T500GL03-E	Grid-tied PV inverter	TUV Rheinland	2021/08/27		CN21F7XT 0002	AK 50516584 0001	Yes	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Canadian Solar	CSI-xoK-T400GL02-E	Grid-tied PV inverter	TUV Rheinland	2021/10/29		50 376 758 007	AK 50522798 0001	Yes	Yes	(xo=80, 100, 110): The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Canadian Solar	CSI-xoK-T400GL03-E	Grid-tied PV inverter	TUV Rheinland	2021/10/29		50 376 758 007	AK 50522798 0001	Yes	Yes	(xo=80, 100, 110): The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Canadian Solar	CSI-xoK-T400GL02-ZA	Grid-tied PV inverter	TUV Rheinland	2021/10/29		50 376 758 007	AK 50522798 0001	Yes	Yes	(xo=80, 100, 110): The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Canadian Solar	CSI-xoK-T400GL03-ZA	Grid-tied PV inverter	TUV Rheinland	2021/10/29		50 376 758 007	AK 50522798 0001	Yes	Yes	(xo=80, 100, 110): The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Deye	SUN-8K-SG01LP1-EU	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16		BL-DG21C0114-B01 (G1)	BL-DG21C0114D02	Yes	Yes	
Deye	SUN-7.6K-SG01LP1-EU	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16		BL-DG21C0114-B01 (G1)	BL-DG21C0114D02	Yes	Yes	
Deye	SUN-6K-SG01LP1-EU	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16		BL-DG21C0114-B01 (G1)	BL-DG21C0114D02	Yes	Yes	
Deye	SUN-5K-SG01LP1-EU	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16		BL-DG21C0114-B01 (G1)	BL-DG21C0114D02	Yes	Yes	
Deye	SUN-3.6K-SG01LP1-EU	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16		BL-DG21C0114-B01 (G1)	BL-DG21C0114D02	Yes	Yes	
Deye	SUN-8K-SG01LP1-EU-B	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16		BL-DG21C0114-B01 (G1)	BL-DG21C0114D02	Yes	Yes	
Deye	SUN-7.6K-SG01LP1-EU-B	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16		BL-DG21C0114-B01 (G1)	BL-DG21C0114D02	Yes	Yes	
Deye	SUN-6K-SG01LP1-EU-B	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16		BL-DG21C0114-B01 (G1)	BL-DG21C0114D02	Yes	Yes	
Deye	SUN-5K-SG01LP1-EU-B	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16		BL-DG21C0114-B01 (G1)	BL-DG21C0114D02	Yes	Yes	

	Deye	SUN-3.6K-SG01LP1-EU-B	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16	BL-DG21C0114-B01 (G1)	BL-DG21C0114D02		Yes	
	Deye	SUN-6K-SG02LP1-EU	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16	BL-DG21C0114-B01 (G1)	BL-DG21C0114D02		Yes	
	Deye	SUN-7.6K-SG02LP1-EU	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16	BL-DG21C0114-B01 (G1)	BL-DG21C0114D02		Yes	
	Deye	SUN-6K-SG02LP1-EU	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16	BL-DG21C0114-B01 (G1)	BL-DG21C0114D02		Yes	
	Deye	SUN-5K-SG02LP1-EU	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16	BL-DG21C0114-B01 (G1)	BL-DG21C0114D02		Yes	
	Deye	SUN-3.6K-SG02LP1-EU	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16	BL-DG21C0114-B01 (G1)	BL-DG21C0114D02		Yes	
	Deye	SUN-6K-SG02LP1-EU-B	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16	BL-DG21C0114-B01 (G1)	BL-DG21C0114D02		Yes	
	Deye	SUN-7.6K-SG02LP1-EU-B	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16	BL-DG21C0114-B01 (G1)	BL-DG21C0114D02		Yes	
	Deye	SUN-6K-SG02LP1-EU-B	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16	BL-DG21C0114-B01 (G1)	BL-DG21C0114D02		Yes	
	Deye	SUN-5K-SG02LP1-EU-B	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16	BL-DG21C0114-B01 (G1)	BL-DG21C0114D02		Yes	
	Deye	SUN-3.6K-SG02LP1-EU-B	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16	BL-DG21C0114-B01 (G1)	BL-DG21C0114D02		Yes	
	Deye	SUN-6K-SG04LP3-EU	Hybrid PV inverter grid-tied	Dongguan Balun	2021/06/09	BL-DG2141024-B01	BL-DG2141024D01		Yes	
	Deye	SUN-8K-SG04LP3-EU	Hybrid PV inverter grid-tied	Dongguan Balun	2021/06/09	BL-DG2141024-B01	BL-DG2141024D01		Yes	
	Deye	SUN-10K-SG04LP3-EU	Hybrid PV inverter grid-tied	Dongguan Balun	2021/06/09	BL-DG2141024-B01	BL-DG2141024D01		Yes	
	Deye	SUN-12K-SG04LP3-EU	Hybrid PV inverter grid-tied	Dongguan Balun	2021/06/09	BL-DG2141024-B01	BL-DG2141024D01		Yes	
	Deye	SUN-12K-SG01LP1-EU	Hybrid PV inverter grid-tied	TUV Rheinland	2022/05/24	CN222MSO 001	AK 50544599 0001		Yes	
	Deye	SUN-14K-SG01LP1-EU	Hybrid PV inverter grid-tied	TUV Rheinland	2022/05/24	CN222MSO 001	AK 50544599 0001		Yes	
	Deye	SUN-16K-SG01LP1-EU	Hybrid PV inverter grid-tied	TUV Rheinland	2022/05/24	CN222MSO 001	AK 50544599 0001		Yes	
	Eaton	XSTH1P036P048V01	Hybrid PV inverter grid-tied	Bureau Veritas	2019/12/10	PVZA190716C26 163818-743394	U19-0642	Yes		
	Eaton	XSTH1P048P048V01	Hybrid PV inverter grid-tied	Bureau Veritas	2019/12/10	PVZA190716C26 163818-743394	U19-0642	Yes		
	Eaton	XSTH1P060P048V01	Hybrid PV inverter grid-tied	Bureau Veritas	2019/12/10	PVZA190716C26 163818-743394	U19-0642	Yes		
	Enphase Energy	IQT7A-72-V-W-Y-Z	Grid-tied PV inverter	EnTest	2020/11/06	P2020082402	COCPP2020082402	Yes		
	Enphase Energy	IQT7X-96-V-W-Y-Z	Grid-tied PV inverter	EnTest	2020/11/06	P2020082402	COCPP2020082402	Yes		
	Enphase Energy	IQT7PLUS-72-V-W-Y-Z	Grid-tied PV inverter	EnTest	2020/11/06	P2020082402	COCPP2020082402	Yes		
	Enphase Energy	IQT7-60-V-W-Y-Z	Grid-tied PV inverter	EnTest	2020/11/06	P2020082402	COCPP2020082402	Yes		
	Enphase Energy	Q-RELAY-1P-INT	Disconnect device	EnTest	2020/11/06	P2020082402	COCPP2020082402	Yes		
	Enphase Energy	Q-RELAY-3P-INT	Disconnect device	EnTest	2020/11/06	P2020082402	COCPP2020082402	Yes		
	FOXESS	H1-6.0-E	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	H1-5.0-E	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	H1-4.6-E	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	H1-3.7-E	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	H1-3.0-E	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	AIO-H1-6.0	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	AIO-H1-5.0	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	AIO-H1-4.6	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	AIO-H1-3.7	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	AIO-H1-3.0	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	AC1-6.0-E	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	AC1-5.0-E	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	AC1-4.6-E	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	AC1-3.7-E	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	AC1-3.0-E	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	AIO-AC1-6.0	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	AIO-AC1-5.0	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	AIO-AC1-4.6	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	AIO-AC1-3.7	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	AIO-AC1-3.0	Hybrid PV inverter grid-tied	TUV NORD & Donguan Balun	2021/05/17	TRPVP03014/21E/02	COCPPV03014/21E-02		Yes	
	FOXESS	KH7	Hybrid PV inverter grid-tied	TUV Rheinland	2022/05/05	CN222EYS 001	AK 50542790 0001		Yes	
	FOXESS	KH8	Hybrid PV inverter grid-tied	TUV Rheinland	2022/05/05	CN222EYS 001	AK 50542790 0001		Yes	
	FOXESS	KH9	Hybrid PV inverter grid-tied	TUV Rheinland	2022/05/05	CN222EYS 001	AK 50542790 0001		Yes	
	FOXESS	KH10	Hybrid PV inverter grid-tied	TUV Rheinland	2022/05/05	CN222EYS 001	AK 50542790 0001		Yes	
	FOXESS	KH10.5	Hybrid PV inverter grid-tied	TUV Rheinland	2022/05/05	CN222EYS 001	AK 50542790 0001		Yes	
	FOXESS	KA7	Battery based inverter grid-tied	TUV Rheinland	2022/05/05	CN222EYS 001	AK 50542790 0001		Yes	
	FOXESS	KA8	Battery based inverter grid-tied	TUV Rheinland	2022/05/05	CN222EYS 001	AK 50542790 0001		Yes	
	FOXESS	KA9	Battery based inverter grid-tied	TUV Rheinland	2022/05/05	CN222EYS 001	AK 50542790 0001		Yes	
	FOXESS	KA10	Battery based inverter grid-tied	TUV Rheinland	2022/05/05	CN222EYS 001	AK 50542790 0001		Yes	
	FOXESS	KA10.5	Battery based inverter grid-tied	TUV Rheinland	2022/05/05	CN222EYS 001	AK 50542790 0001		Yes	
	Fronius	Primo 3.0-1	Grid-tied PV inverter	TUV Rheinland	2020/09/22	28119635 003	AK 60152048 0001	Yes		
	Fronius	Primo 3.5-1	Grid-tied PV inverter	TUV Rheinland	2020/09/22	28119635 003	AK 60152048 0001	Yes		
	Fronius	Primo 3.6-1	Grid-tied PV inverter	TUV Rheinland	2020/09/22	28119635 003	AK 60152048 0001	Yes		
	Fronius	Primo 4.0-1	Grid-tied PV inverter	TUV Rheinland	2020/09/22	28119635 003	AK 60152048 0001	Yes		
	Fronius	Primo 4.6-1	Grid-tied PV inverter	TUV Rheinland	2020/09/22	28119635 003	AK 60152048 0001	Yes		
	Fronius	Primo 5.0-1	Grid-tied PV inverter	TUV Rheinland	2020/09/22	28119635 003	AK 60152048 0001	Yes		
	Fronius	Primo 6.0-1	Grid-tied PV inverter	TUV Rheinland	2020/09/22	28119635 003	AK 60152048 0001	Yes		
	Fronius	Primo 8.2-1	Grid-tied PV inverter	TUV Rheinland	2020/09/22	28119635 003	AK 60152048 0001	Yes		
	Fronius	Symo 10.0-3-M	Grid-tied PV inverter	TUV Rheinland	2020/09/22	28119635 005	AK 60152049 0001	Yes		
	Fronius	Symo 12.5-3-M	Grid-tied PV inverter	TUV Rheinland	2020/09/22	28119635 005	AK 60152049 0001	Yes		
	Fronius	Symo 15.0-3-M	Grid-tied PV inverter	TUV Rheinland	2020/09/22	28119635 005	AK 60152049 0001	Yes		
	Fronius	Symo 17.5-3-M	Grid-tied PV inverter	TUV Rheinland	2020/09/22	28119635 005	AK 60152049 0001	Yes		
	Fronius	Symo 20.0-3-M	Grid-tied PV inverter	TUV Rheinland	2020/09/22	28119635 005	AK 60152049 0001	Yes		
	Fronius	Symo GEN24 X.X Plus	Grid-tied PV inverter	TUV Rheinland	2021/05/19	IT2157N9 001	AK 60156753 0001		Yes	X.X can be 10.0; 9.0; 8.0; 7.0 and 6.0
	Fronius	Symo GEN24 X.X	Grid-tied PV inverter	TUV Rheinland	2021/05/19	IT2157N9 001	AK 60156753 0001		Yes	X.X can be 10.0; 9.0; 8.0; 7.0 and 6.0

1. Legend: WhereV=2, 5, E or blank; W = blank or ACM; Y = INT; Z = blank, RMA or NM.
2. The inverter installation must be provided with an external RCD type B.
3. Q- RELAY may only be used with these Enphase Energy inverters.

Fronius	Symo GEN24 X.X Lite	Grid-tied PV inverter	TUV Rheinland	2021/05/19	IT2157N9 001	AK 60156753 0001	Yes	X.X can be 10.0; 9.0; 8.0; 7.0 and 6.0
Fronius	Primo GEN24 X.X Plus	Grid-tied PV inverter	TUV Rheinland	2021/05/19	IT21WUZG 001	AK 60156751 0001	Yes	X.X can be 3.0; 3.6; 4.0; 4.6; 5.0 and 6.0
Fronius	Primo GEN24 X.X	Grid-tied PV inverter	TUV Rheinland	2021/05/19	IT21WUZG 001	AK 60156751 0001	Yes	X.X can be 3.0; 3.6; 4.0; 4.6; 5.0 and 6.0
Fronius	Primo GEN24 X.X Lite	Grid-tied PV inverter	TUV Rheinland	2021/05/19	IT21WUZG 001	AK 60156751 0001	Yes	X.X can be 3.0; 3.6; 4.0; 4.6; 5.0 and 6.0
Fronius	ECO 25.0-3-S	Grid-tied PV inverter	TUV Rheinland	2021/05/05	IT210G4J 003	AK 60156511 0001	Yes	Inverter may only be used in plants according to Category A.S. 100 kVA - MVA and connection to the grid via an external customer Mv/LV AC transformer.
Fronius	ECO 27.0-3-S	Grid-tied PV inverter	TUV Rheinland	2021/05/05	IT210G4J 003	AK 60156511 0001	Yes	Inverter may only be used in plants according to Category A.S. 100 kVA - MVA and connection to the grid via an external customer Mv/LV AC transformer.
Fronius	TAURO ECO 50-3-P	Grid-tied PV inverter	TUV Rheinland	2022/01/25	IT22Z7D0 001	AK 60161549 0001	Yes	Inverter may only be used in plants according to Category A.S. 100 kVA - MVA and connection to the grid via an external customer Mv/LV AC transformer.
Fronius	TAURO ECO 50-3-D	Grid-tied PV inverter	TUV Rheinland	2022/01/25	IT22Z7D0 001	AK 60161549 0001	Yes	Inverter may only be used in plants according to Category A.S. 100 kVA - MVA and connection to the grid via an external customer Mv/LV AC transformer.
Fronius	TAURO ECO 99-3-P	Grid-tied PV inverter	TUV Rheinland	2022/01/25	IT22Z7D0 001	AK 60161549 0001	Yes	Inverter may only be used in plants according to Category A.S. 100 kVA - MVA and connection to the grid via an external customer Mv/LV AC transformer.
Fronius	TAURO ECO 99-3-D	Grid-tied PV inverter	TUV Rheinland	2022/01/25	IT22Z7D0 001	AK 60161549 0001	Yes	Inverter may only be used in plants according to Category A.S. 100 kVA - MVA and connection to the grid via an external customer Mv/LV AC transformer.
Fronius	TAURO ECO 100-3-P	Grid-tied PV inverter	TUV Rheinland	2022/01/25	IT22Z7D0 001	AK 60161549 0001	Yes	Inverter may only be used in plants according to Category A.S. 100 kVA - MVA and connection to the grid via an external customer Mv/LV AC transformer.
Fronius	TAURO ECO 100-3-D	Grid-tied PV inverter	TUV Rheinland	2022/01/25	IT22Z7D0 001	AK 60161549 0001	Yes	Inverter may only be used in plants according to Category A.S. 100 kVA - MVA and connection to the grid via an external customer Mv/LV AC transformer.
Fronius	TAURO 50-3-P	Grid-tied PV inverter	TUV Rheinland	2022/01/27	IT221Y5I 001	AK 60161577 0001	Yes	Inverter may only be used in plants according to Category A.S. 100 kVA - MVA and connection to the grid via an external customer Mv/LV AC transformer.
Fronius	TAURO 50-3-D	Grid-tied PV inverter	TUV Rheinland	2022/01/27	IT221Y5I 001	AK 60161577 0001	Yes	Inverter may only be used in plants according to Category A.S. 100 kVA - MVA and connection to the grid via an external customer Mv/LV AC transformer.
Goodwe	GW3648D-ES	Hybrid PV inverter grid-tied	TUV SUD	2018/11/12	704091815302-00	D 083373 0039 Rev.00	Yes	
Goodwe	GW5048D-ES	Hybrid PV inverter grid-tied	TUV SUD	2019/11/12	704091815302-00	D 083373 0039 Rev.00	Yes	
Goodwe	GW3048-EM	Hybrid PV inverter grid-tied	TUV Rheinland	2017/07/14	50085060 001	AK 50383738 0001	Yes	
Goodwe	GW3648-EM	Hybrid PV inverter grid-tied	TUV Rheinland	2017/07/14	50085060 001	AK 50383738 0001	Yes	
Goodwe	GW5048-EM	Hybrid PV inverter grid-tied	TUV Rheinland	2017/07/14	50085060 001	AK 50383738 0001	Yes	
Goodwe	GW4K-DT	Grid-tied PV inverter	Bureau Veritas	2019/11/20	ZEM-19OC0893FTSH	U19-0609	Yes	
Goodwe	GW5K-DT	Grid-tied PV inverter	Bureau Veritas	2019/11/20	ZEM-19OC0893FTSH	U19-0609	Yes	
Goodwe	GW6K-DT	Grid-tied PV inverter	Bureau Veritas	2019/11/20	ZEM-19OC0893FTSH	U19-0609	Yes	
Goodwe	GW8K-DT	Grid-tied PV inverter	Bureau Veritas	2019/11/20	ZEM-19OC0893FTSH	U19-0609	Yes	
Goodwe	GW10K-DT	Grid-tied PV inverter	Bureau Veritas	2019/11/20	ZEM-19OC0893FTSH	U19-0609	Yes	
Goodwe	GW12K-DT	Grid-tied PV inverter	Bureau Veritas	2019/11/20	ZEM-19OC0893FTSH	U19-0609	Yes	
Goodwe	GW15K-DT	Grid-tied PV inverter	Bureau Veritas	2019/11/20	ZEM-19OC0893FTSH	U19-0609	Yes	
Goodwe	GW5000S-BP	Battery based inverter grid-tied	TUV Rheinland	2018/11/12	50180648 001	AK 50419930 0001	Yes	
Goodwe	GW3600S-BP	Battery based inverter grid-tied	TUV Rheinland	2018/11/12	50180648 001	AK 50419930 0001	Yes	
Goodwe	GW5K-ET	Hybrid PV inverter grid-tied	Bureau Veritas	2019/05/23	PVZA190507N014	1988AP0507N014001	Yes	
Goodwe	GW8K-ET	Hybrid PV inverter grid-tied	Bureau Veritas	2019/05/23	PVZA190507N014	1988AP0507N014001	Yes	
Goodwe	GW10K-ET	Hybrid PV inverter grid-tied	Bureau Veritas	2019/05/23	PVZA190507N014	1988AP0507N014001	Yes	
Goodwe	GW25K-MT	Grid-tied PV inverter	Bureau Veritas	2020/03/05	PVZA181008N021-R1	1888AP1008N021015	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Goodwe	GW30K-MT	Grid-tied PV inverter	Bureau Veritas	2020/03/05	PVZA181008N021-R1	1888AP1008N021015	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Goodwe	GW36K-MT	Grid-tied PV inverter	Bureau Veritas	2020/03/05	PVZA181008N021-R1	1888AP1008N021015	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Goodwe	GW50K-MT	Grid-tied PV inverter	Bureau Veritas	2022/05/06	PVZA180903N057-R2	1888AP0903N057004	Yes	
Goodwe	GW60K-MT	Grid-tied PV inverter	Bureau Veritas	2022/05/06	PVZA180903N057-R2	1888AP0903N057004	Yes	
Goodwe	GW50KN-MT	Grid-tied PV inverter	Bureau Veritas	2022/05/06	PVZA180903N057-R2	1888AP0903N057004	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Goodwe	GW60KN-MT	Grid-tied PV inverter	Bureau Veritas	2022/05/06	PVZA180903N057-R2	1888AP0903N057004	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Goodwe	GW 3000D-NS	Grid-tied PV inverter	Bureau Veritas	2020/01/19	PVZA190627N029	1988AP0627N0290001	Yes	
Goodwe	GW 3600D-NS	Grid-tied PV inverter	Bureau Veritas	2020/01/19	PVZA190627N029	1988AP0627N0290001	Yes	
Goodwe	GW 4200D-NS	Grid-tied PV inverter	Bureau Veritas	2020/01/19	PVZA190627N029	1988AP0627N0290001	Yes	
Goodwe	GW 5000D-NS	Grid-tied PV inverter	Bureau Veritas	2020/01/19	PVZA190627N029	1988AP0627N0290001	Yes	
Goodwe	GW 6000D-NS	Grid-tied PV inverter	Bureau Veritas	2020/01/19	PVZA190627N029	1988AP0627N0290001	Yes	
Goodwe	GW 20KN-DT	Grid-tied PV inverter	Bureau Veritas	2020/04/17	ASBJ-190C2322FTSHS	U20-0270	Yes	
Goodwe	GW 17KN-DT	Grid-tied PV inverter	Bureau Veritas	2020/04/17	ASBJ-190C2322FTSHS	U20-0270	Yes	
Goodwe	GW 15KN-DT	Grid-tied PV inverter	Bureau Veritas	2020/04/17	ASBJ-190C2322FTSHS	U20-0270	Yes	
Goodwe	GW 12KN-DT	Grid-tied PV inverter	Bureau Veritas	2020/04/17	ASBJ-190C2322FTSHS	U20-0270	Yes	
Goodwe	GW 100K-HT	Grid-tied PV inverter	TUV Rheinland	2020/12/24	CN20W6U3 001	AK 50490607 0001	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Goodwe	GW 110K-HT	Grid-tied PV inverter	TUV Rheinland	2020/12/24	CN20W6U3 001	AK 50490607 0001	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Goodwe	GW 120K-HT	Grid-tied PV inverter	TUV Rheinland	2020/12/24	CN20W6U3 001	AK 50490607 0001	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Goodwe	GW 136K-HTH	Grid-tied PV inverter	TUV Rheinland	2020/12/24	CN20W6U3 001	AK 50490607 0001	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Goodwe	GW5000-EHB	Hybrid PV inverter grid-tied	SGS	2021/11/11	2220/0404-E1	2620/0404-E1-CER	Yes	
Goodwe	GW6500-EHB	Hybrid PV inverter grid-tied	SGS	2021/11/11	2220/0404-E1	2620/0404-E1-CER	Yes	
Goodwe	GW8600-EHB	Hybrid PV inverter grid-tied	SGS	2021/11/11	2220/0404-E1	2620/0404-E1-CER	Yes	
Goodwe	GW0010-EHB	Hybrid PV inverter grid-tied	SGS	2021/11/11	2220/0404-E1	2620/0404-E1-CER	Yes	
Goodwe	GW 17KT-DT	Hybrid PV inverter grid-tied	TUV Rheinland	2022/04/15	60395681 002	AK 50540008 0001	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Goodwe	GW 20KT-DT	Hybrid PV inverter grid-tied	TUV Rheinland	2022/04/15	60395681 002	AK 50540008 0001	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Goodwe	GW 25KT-DT	Hybrid PV inverter grid-tied	TUV Rheinland	2022/04/15	60395681 002	AK 50540008 0001	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Goodwe	GW50KS-MT	Grid-tied PV inverter	TUV NORD & Donguan	2022/06/07	TRPVP11058/21E/02	COCPPVP11058/21E-04	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Goodwe	GW60KS-MT	Grid-tied PV inverter	TUV NORD & Donguan	2022/06/07	TRPVP11058/21E/02	COCPPVP11058/21E-04	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Goodwe	GWx-ES-20	Hybrid PV inverter grid-tied	TUV Rheinland	2022/07/06	CN22SCQU 001	AK 50550767 0001	Yes	Where x = 3000, 3600, 5000, 6000
Goodwe	GWxM-ES-20	Hybrid PV inverter grid-tied	TUV Rheinland	2022/07/06	CN22SCQU 001	AK 50550767 0001	Yes	Where x = 3600, 5000, 6000
Goodwe	GWx-SBP-20	Hybrid PV inverter grid-tied	TUV Rheinland	2022/07/06	CN22SCQU 001	AK 50550767 0001	Yes	Where x = 3600, 5000, 6000
Goodwe	GW80K-MT	Grid-tied PV inverter	Bureau Veritas	2022/08/10	PVZA191217N016-R2	2288AP080035001	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growatt	SPH3000TL BL-UP	Hybrid PV inverter grid-tied	Intertek	2019/10/25	190719102GZU-001	CN-PV-190037	Yes	
Growatt	SPH3600TL BL-UP	Hybrid PV inverter grid-tied	Intertek	2019/10/25	190719102GZU-001	CN-PV-190037	Yes	
Growatt	SPH4000TL BL-UP	Hybrid PV inverter grid-tied	Intertek	2019/10/25	190719102GZU-001	CN-PV-190037	Yes	
Growatt	SPH4600TL BL-UP	Hybrid PV inverter grid-tied	Intertek	2019/10/25	190719102GZU-001	CN-PV-190037	Yes	

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Hoymiles	HM-1000T	Grid-tied PV inverter	TÜV NORD & Donguan Balun	2021/11/19		TRPVP03078/21B/01	COCPPV03078/21B-01		Yes	
Hoymiles	HM-1200	Grid-tied PV inverter	TÜV NORD & Donguan Balun	2021/11/19		TRPVP03078/21B/01	COCPPV03078/21B-01		Yes	
Hoymiles	HM-1200T	Grid-tied PV inverter	TÜV NORD & Donguan Balun	2021/11/19		TRPVP03078/21B/01	COCPPV03078/21B-01		Yes	
Hoymiles	HM-1500	Grid-tied PV inverter	TÜV NORD & Donguan Balun	2021/11/19		TRPVP03078/21B/01	COCPPV03078/21B-01		Yes	
Hoymiles	HM-1500T	Grid-tied PV inverter	TÜV NORD & Donguan Balun	2021/11/19		TRPVP03078/21B/01	COCPPV03078/21B-01		Yes	
Huawei	SUN 2000-50KTL-MO	Grid-tied PV inverter	TÜV SÜD	2018/09/21		70 409 18 051 24-01	D 041829 3318	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-60KTL-MO	Grid-tied PV inverter	TÜV SÜD	2018/09/21		70 409 18 051 24-01	D 041829 3318	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-36KTL	Grid-tied PV inverter	Bureau Veritas	2020/04/24		PVZA1807180N034	1888AP0718N004001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-100KTL-M1	Grid-tied PV inverter	Bureau Veritas	2020/05/29		PVZA200521N034	2088AP0521N034001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-2KTL-L1	Hybrid PV inverter grid-tied	Bureau Veritas	2021/02/08		PVZA2101WDG0170	2188AP010170001		Yes	
Huawei	SUN 2000-3KTL-L1	Hybrid PV inverter grid-tied	Bureau Veritas	2021/02/08		PVZA2101WDG0170	2188AP010170001		Yes	
Huawei	SUN 2000-3.6KTL-L1	Hybrid PV inverter grid-tied	Bureau Veritas	2021/02/08		PVZA2101WDG0170	2188AP010170001		Yes	
Huawei	SUN 2000-4KTL-L1	Hybrid PV inverter grid-tied	Bureau Veritas	2021/02/08		PVZA2101WDG0170	2188AP010170001		Yes	
Huawei	SUN 2000-4.6KTL-L1	Hybrid PV inverter grid-tied	Bureau Veritas	2021/02/08		PVZA2101WDG0170	2188AP010170001		Yes	
Huawei	SUN 2000-5KTL-L1	Hybrid PV inverter grid-tied	Bureau Veritas	2021/02/08		PVZA2101WDG0170	2188AP010170001		Yes	
Huawei	SUN 2000-6KTL-L1	Hybrid PV inverter grid-tied	Bureau Veritas	2021/02/08		PVZA2101WDG0170	2188AP010170001		Yes	
Huawei	SUN 2000-3KTL-M1	Hybrid PV inverter grid-tied	TÜV SÜD	2021/08/13		704092106508-00	D 041829 4613 Rev 00	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-4KTL-M1	Hybrid PV inverter grid-tied	TÜV SÜD	2021/08/13		704092106508-00	D 041829 4613 Rev 00	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-5KTL-M1	Hybrid PV inverter grid-tied	TÜV SÜD	2021/08/13		704092106508-00	D 041829 4613 Rev 00	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-6KTL-M1	Hybrid PV inverter grid-tied	TÜV SÜD	2021/08/13		704092106508-00	D 041829 4613 Rev 00	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-8KTL-M1	Hybrid PV inverter grid-tied	TÜV SÜD	2021/08/13		704092106508-00	D 041829 4613 Rev 00	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-10KTL-M1	Hybrid PV inverter grid-tied	TÜV SÜD	2021/08/13		704092106508-00	D 041829 4613 Rev 00	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-3KTL-M0	Hybrid PV inverter grid-tied	TÜV SÜD	2021/08/13		704092106508-00	D 041829 4613 Rev 00	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-4KTL-M0	Hybrid PV inverter grid-tied	TÜV SÜD	2021/08/13		704092106508-00	D 041829 4613 Rev 00	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-5KTL-M0	Hybrid PV inverter grid-tied	TÜV SÜD	2021/08/13		704092106508-00	D 041829 4613 Rev 00	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-6KTL-M1	Hybrid PV inverter grid-tied	TÜV SÜD	2021/08/13		704092106508-00	D 041829 4613 Rev 00	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-8KTL-M0	Hybrid PV inverter grid-tied	TÜV SÜD	2021/08/13		704092106508-00	D 041829 4613 Rev 00	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-10KTL-M0	Hybrid PV inverter grid-tied	TÜV SÜD	2021/08/13		704092106508-00	D 041829 4613 Rev 00	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-8KTL-M0	Grid-tied PV inverter	Bureau Veritas	2021/09/07		PVZA190424N048-R1	1988AP0424048002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-10KTL-M0	Grid-tied PV inverter	Bureau Veritas	2021/09/07		PVZA190424N048-R1	1988AP0424048002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-12KTL-M0	Grid-tied PV inverter	Bureau Veritas	2021/09/07		PVZA190424N048-R1	1988AP0424048002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-15KTL-M0	Grid-tied PV inverter	Bureau Veritas	2021/09/07		PVZA190424N048-R1	1988AP0424048002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-17KTL-M0	Grid-tied PV inverter	Bureau Veritas	2021/09/07		PVZA190424N048-R1	1988AP0424048002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-20KTL-M0	Grid-tied PV inverter	Bureau Veritas	2021/09/07		PVZA190424N048-R1	1988AP0424048002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-8KTL-M2	Grid-tied PV inverter	Bureau Veritas	2021/09/07		PVZA190424N048-R1	1988AP0424048002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-10KTL-M2	Grid-tied PV inverter	Bureau Veritas	2021/09/07		PVZA190424N048-R1	1988AP0424048002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-12KTL-M2	Grid-tied PV inverter	Bureau Veritas	2021/09/07		PVZA190424N048-R1	1988AP0424048002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-15KTL-M2	Grid-tied PV inverter	Bureau Veritas	2021/09/07		PVZA190424N048-R1	1988AP0424048002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-17KTL-M2	Grid-tied PV inverter	Bureau Veritas	2021/09/07		PVZA190424N048-R1	1988AP0424048002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-20KTL-M2	Grid-tied PV inverter	Bureau Veritas	2021/09/07		PVZA190424N048-R1	1988AP0424048002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-15KTL-M3	Grid-tied PV inverter	Bureau Veritas	2021/11/05		PVZA200511N092-R2	2188AP060400002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-17KTL-M3	Grid-tied PV inverter	Bureau Veritas	2021/11/05		PVZA200511N092-R2	2188AP060400002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-20KTL-M3	Grid-tied PV inverter	Bureau Veritas	2021/11/05		PVZA200511N092-R2	2188AP060400002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-23KTL-M3	Grid-tied PV inverter	Bureau Veritas	2021/11/05		PVZA200511N092-R2	2188AP060400002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-28KTL-M3	Grid-tied PV inverter	Bureau Veritas	2021/11/05		PVZA200511N092-R2	2188AP060400002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-30KTL-M3	Grid-tied PV inverter	Bureau Veritas	2021/11/05		PVZA200511N092-R2	2188AP060400002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-36KTL-M3	Grid-tied PV inverter	Bureau Veritas	2021/11/05		PVZA200511N092-R2	2188AP060400002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-40KTL-M3	Grid-tied PV inverter	Bureau Veritas	2021/11/05		PVZA200511N092-R2	2188AP060400002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Huawei	SUN 2000-42KTL-M3	Grid-tied PV inverter	Bureau Veritas	2021/11/05		PVZA200511N092-R2	2188AP060400002	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used
Ingeteam	Ingecon Sun Storage 1Play 3TL M	Hybrid PV inverter grid-tied	SGS	2022/02/28	2026/05/11	2220/0119-E-E1	2620/0119-E-E1-CER		Yes	
Ingeteam	Basic	Hybrid PV inverter grid-tied	SGS	2022/02/28	2026/05/11	2220/0119-E-E1	2620/0119-E-E1-CER		Yes	
Ingeteam	Ingecon Sun Storage 1Play 6TL M	Hybrid PV inverter grid-tied	SGS	2022/02/28	2026/05/11	2220/0119-E-E1	2620/0119-E-E1-CER		Yes	
Ingeteam	Basic	Hybrid PV inverter grid-tied	SGS	2022/02/28	2026/05/11	2220/0119-E-E1	2620/0119-E-E1-CER		Yes	
Kodak	Kodak I3.0	Grid-tied PV inverter	Dekra	2019/12/10		6065813.50	6065813.01AOCC	Yes		
Kodak	Kodak I3.6	Grid-tied PV inverter	Dekra	2019/12/10		6065813.50	6065813.01AOCC	Yes		
Kodak	Kodak I4.6	Grid-tied PV inverter	Dekra	2019/12/10		6065813.50	6065813.01AOCC	Yes		
Kodak	Kodak H3.0	Hybrid PV inverter grid-tied	TUV Rheinland	2019/12/17		50173405.002	AK 50454890.0001	Yes		
Kodak	Kodak H3.6	Hybrid PV inverter grid-tied	TUV Rheinland	2019/12/17		50173405.002	AK 50454890.0001	Yes		
Kodak	Kodak H4.6	Hybrid PV inverter grid-tied	TUV Rheinland	2019/12/17		50173405.002	AK 50454890.0001	Yes		
KSTAR	BLU-E-S 3680D	Hybrid PV inverter grid-tied	TUV SUD	2020/03/29		64.290.20.30989.03	D 075386 0136 Rev. 02	Yes		
KSTAR	BLU-E-S 5000D	Hybrid PV inverter grid-tied	TUV SUD	2021/09/23		64.290.20.30989.03	D 075386 0136 Rev. 02	Yes		
KSTAR	BLU-E-S 3680D-M1	Hybrid PV inverter grid-tied	TUV SUD	2021/09/23		64.290.20.30989.03	D 075386 0136 Rev. 02	Yes		
KSTAR	BLU-E-S 5000D-M1	Hybrid PV inverter grid-tied	TUV SUD	2021/09/23		64.290.20.30989.03	D 075386 0136 Rev. 02	Yes		
KSTAR	BLU-E-G 3000S	Grid-tied PV inverter	TUV SUD	2021/09/23		64.290.21.30004.03	D 075386 0137 Rev. 02	Yes		
KSTAR	BLU-E-G 5000S-M1	Grid-tied PV inverter	TUV SUD	2021/09/23		64.290.21.30004.03	D 075386 0137 Rev. 02	Yes		

KSTAR	Blue-G 3000D	Grid-tied PV inverter	TUV SUD	2021/09/23	64.290.21.30004.03	D 075386 0137 Rev.02	Yes		
KSTAR	Blue-G 3000D-M0	Grid-tied PV inverter	TUV SUD	2021/09/23	64.290.21.30004.03	D 075386 0137 Rev.02	Yes		
KSTAR	Blue-G 3000D-M1	Grid-tied PV inverter	TUV SUD	2021/09/23	64.290.21.30004.03	D 075386 0137 Rev.02	Yes		
KSTAR	Blue-G 3600D	Grid-tied PV inverter	TUV SUD	2021/09/23	64.290.21.30004.03	D 075386 0137 Rev.02	Yes		
KSTAR	Blue-G 3600D-M0	Grid-tied PV inverter	TUV SUD	2021/09/23	64.290.21.30004.03	D 075386 0137 Rev.02	Yes		
KSTAR	Blue-G 3600D-M1	Grid-tied PV inverter	TUV SUD	2021/09/23	64.290.21.30004.03	D 075386 0137 Rev.02	Yes		
KSTAR	Blue-G 4000D	Grid-tied PV inverter	TUV SUD	2021/09/23	64.290.21.30004.03	D 075386 0137 Rev.02	Yes		
KSTAR	Blue-G 4000D-M0	Grid-tied PV inverter	TUV SUD	2021/09/23	64.290.21.30004.03	D 075386 0137 Rev.02	Yes		
KSTAR	Blue-G 4000D-M1	Grid-tied PV inverter	TUV SUD	2021/09/23	64.290.21.30004.03	D 075386 0137 Rev.02	Yes		
KSTAR	Blue-G 4200D	Grid-tied PV inverter	TUV SUD	2021/09/23	64.290.21.30004.03	D 075386 0137 Rev.02	Yes		
KSTAR	Blue-G 4200D-M0	Grid-tied PV inverter	TUV SUD	2021/09/23	64.290.21.30004.03	D 075386 0137 Rev.02	Yes		
KSTAR	Blue-G 4200D-M1	Grid-tied PV inverter	TUV SUD	2021/09/23	64.290.21.30004.03	D 075386 0137 Rev.02	Yes		
KSTAR	Blue-G 4600D	Grid-tied PV inverter	TUV SUD	2021/09/23	64.290.21.30004.03	D 075386 0137 Rev.02	Yes		
KSTAR	Blue-G 4600D-M1	Grid-tied PV inverter	TUV SUD	2021/09/23	64.290.21.30004.03	D 075386 0137 Rev.02	Yes		
Lifelynk	Life3.5Hyb02	Hybrid PV inverter grid-tied	Dongguan Balun	2022/05/19	BL-DG2240044-B01	BL-DG2240044D01	Yes		
Lifelynk	Life3.3Hyb02	Hybrid PV inverter grid-tied	Dongguan Balun	2022/05/19	BL-DG2240044-B01	BL-DG2240044D01	Yes		
Livotek	Hyper-2000	Hybrid PV inverter grid-tied	Dekra	2019/07/05	6055811. 50	6055811.01AOC	Yes		
Livotek	Hyper-3000	Hybrid PV inverter grid-tied	Dekra	2019/07/05	6055811. 50	6055811.01AOC	Yes		
Livotek	Hyper-3680	Hybrid PV inverter grid-tied	Dekra	2019/07/05	6055811. 50	6055811.01AOC	Yes		
Livotek	Hyper-4600	Hybrid PV inverter grid-tied	Dekra	2019/07/05	6055811. 50	6055811.01AOC	Yes		
Livotek	Hyper-5000	Hybrid PV inverter grid-tied	Dekra	2019/07/05	6055811. 50	6055811.01AOC	Yes		
Livotek	Retro-2000	Battery based inverter grid-tied	Dekra	2019/07/05	6055811. 50	6055811.01AOC	Yes		
Livotek	Retro-3000	Battery based inverter grid-tied	Dekra	2019/07/05	6055811. 50	6055811.01AOC	Yes		
Livotek	Retro-3680	Battery based inverter grid-tied	Dekra	2019/07/05	6055811. 50	6055811.01AOC	Yes		
Livotek	Retro-4600	Battery based inverter grid-tied	Dekra	2019/07/05	6055811. 50	6055811.01AOC	Yes		
Livotek	Retro-5000	Battery based inverter grid-tied	Dekra	2019/07/05	6055811. 50	6055811.01AOC	Yes		
network and system grid protection voltage and frequency relay only in accordance with DIN VDE 0124-100 and VDE-AR-N 4105:2018-11. Must be programmed to NRS 097-2-1 or the applicable South African Grid Codes and may only be used in conjunction with approved NRS 097-2-1 type tested inverters on this list.									
Lovato	PMVF 80	Network & system relay	TUV SUD	2020/10/28	TR-486879-82695-04 (Ed 01)	D 084111 Rev. 00	No	No	
Lux Power	LXP 3K Hybrid	Hybrid PV inverter grid-tied	Intertek	2019/08/29	190624070GZU-001	CN-PV-190006	Yes		
Lux Power	LXP 4K Hybrid	Hybrid PV inverter grid-tied	Intertek	2019/08/29	190624070GZU-001	CN-PV-190006	Yes		
Lux Power	LXP 5K Hybrid	Hybrid PV inverter grid-tied	Intertek	2019/08/29	190624070GZU-001	CN-PV-190006	Yes		
Lux Power	LXP-LB-EU 8K	Hybrid PV inverter grid-tied	Intertek	2022/08/16	211111140GZU-001	CN-PV-220166		Yes	
Lux Power	LXP-LB-EU 10K	Hybrid PV inverter grid-tied	Intertek	2022/08/16	211111140GZU-001	CN-PV-220166		Yes	
Lux Power	LXP-LB-EU 12K	Hybrid PV inverter grid-tied	Intertek	2022/08/22	220630104GZU-001	CN-PV-220171		Yes	
Mecer	Mecer Sola-IS-10M	Hybrid PV inverter grid-tied	Bureau Veritas	2020/10/30	PVZA180904087-4.1	208AP0922M001002	Yes		
Megarevo	R3KL1	Hybrid PV inverter grid-tied	TUV SUD	2022/01/14	64.290.21.30686.01	D 115385 0001 Rev.00	Yes		
Megarevo	R3K6L1	Hybrid PV inverter grid-tied	TUV SUD	2022/01/14	64.290.21.30686.01	D 115385 0001 Rev.00	Yes		
Megarevo	R4KL1	Hybrid PV inverter grid-tied	TUV SUD	2022/01/14	64.290.21.30686.01	D 115385 0001 Rev.00	Yes		
Megarevo	R4K6L1	Hybrid PV inverter grid-tied	TUV SUD	2022/01/14	64.290.21.30686.01	D 115385 0001 Rev.00	Yes		
Megarevo	R5KL1	Hybrid PV inverter grid-tied	TUV SUD	2022/01/14	64.290.21.30686.01	D 115385 0001 Rev.00	Yes		
Megarevo	R6KL1	Hybrid PV inverter grid-tied	TUV SUD	2022/01/14	64.290.21.30686.01	D 115385 0001 Rev.00	Yes		
Megarevo	R8KL1	Hybrid PV inverter grid-tied	TUV SUD	2022/01/26	64.290.21.30836.01	D 115385 0002 Rev.00	Yes		
Ohm	OHM-8K-W	Hybrid PV inverter grid-tied	Shenzhen Balun	2020/02/26	BL-SZ1910095-B02	BL-SZ1910095-D02	Yes		
Ohm	OHM-7.6K-W	Hybrid PV inverter grid-tied	Shenzhen Balun	2020/02/26	BL-SZ1910095-B02	BL-SZ1910095-D02	Yes		
Ohm	OHM-6K-W	Hybrid PV inverter grid-tied	Shenzhen Balun	2020/02/26	BL-SZ1910095-B02	BL-SZ1910095-D02	Yes		
Ohm	OHM-5K-W	Hybrid PV inverter grid-tied	Shenzhen Balun	2020/02/26	BL-SZ1910095-B02	BL-SZ1910095-D02	Yes		
Ohm	OHM-3.6K-W	Hybrid PV inverter grid-tied	Shenzhen Balun	2020/02/26	BL-SZ1910095-B02	BL-SZ1910095-D02	Yes		
Uuco	M3KES	Hybrid PV inverter grid-tied	TUV SUD	2022/01/25	64.290.22.30047.01	D 115420 0001 Rev.00	Yes		
Uuco	M3K6ES	Hybrid PV inverter grid-tied	TUV SUD	2022/01/25	64.290.22.30047.01	D 115420 0001 Rev.00	Yes		
Uuco	M4KES	Hybrid PV inverter grid-tied	TUV SUD	2022/01/25	64.290.22.30047.01	D 115420 0001 Rev.00	Yes		
Uuco	M4K6ES	Hybrid PV inverter grid-tied	TUV SUD	2022/01/25	64.290.22.30047.01	D 115420 0001 Rev.00	Yes		
Uuco	M5KES	Hybrid PV inverter grid-tied	TUV SUD	2022/01/25	64.290.22.30047.01	D 115420 0001 Rev.00	Yes		
Uuco	M6KES	Hybrid PV inverter grid-tied	TUV SUD	2022/01/25	64.290.22.30047.01	D 115420 0001 Rev.00	Yes		
Uuco	M8KDS	Hybrid PV inverter grid-tied	TUV SUD	2022/01/27	64.290.22.30048.01	D 115420 0002 Rev.00	Yes		
Rentech	HYD 3000-EP	Hybrid PV inverter grid-tied	Intertek	2020/12/22	201207035GZU-001	CN-PV-200172	Yes		
Rentech	HYD 3680-EP	Hybrid PV inverter grid-tied	Intertek	2020/12/22	201207035GZU-001	CN-PV-200172	Yes		
Rentech	HYD 4000-EP	Hybrid PV inverter grid-tied	Intertek	2020/12/22	201207035GZU-001	CN-PV-200172	Yes		
Rentech	HYD 4600-EP	Hybrid PV inverter grid-tied	Intertek	2020/12/22	201207035GZU-001	CN-PV-200172	Yes		
Rentech	HYD 5000-EP	Hybrid PV inverter grid-tied	Intertek	2020/12/22	201207035GZU-001	CN-PV-200172	Yes		
Rentech	HYD 5500-EP	Hybrid PV inverter grid-tied	Intertek	2020/12/22	201207035GZU-001	CN-PV-200172	Yes		
Rentech	HYD 6000-EP	Hybrid PV inverter grid-tied	Intertek	2020/12/22	201207035GZU-001	CN-PV-200172	Yes		
Rentech	INFINISOLAR PLUS 5 kW	Hybrid PV inverter grid-tied	Bureau Veritas	2021/02/20	PVZA21011WDG0269	218AP0268001	Yes		
Royal	RH 3.6K-1PLVG1-EU	Hybrid PV inverter grid-tied	Intertek	2022/10/17	220600667SHA-004	CN-PV-220212R1	Yes		
Royal	RH 4K-1PLVG1-EU	Hybrid PV inverter grid-tied	Intertek	2022/10/17	220600667SHA-004	CN-PV-220212R1	Yes		
Royal	RH 4.6K-1PLVG1-EU	Hybrid PV inverter grid-tied	Intertek	2022/10/17	220600667SHA-004	CN-PV-220212R1	Yes		
Royal	RH 5K-1PLVG1-EU	Hybrid PV inverter grid-tied	Intertek	2022/10/17	220600667SHA-004	CN-PV-220212R1	Yes		
Schneider	Conext CL-40E	Grid-tied PV inverter	TUV SUD	2018/02/09	701261703501-01	D 18 01 98208 008	Yes		
Schneider	XW+8548E	Battery based inverter grid-tied	TUV Rheinland	2020/08/11	50328684 002	AK 50477341 0001	Yes		
Schneider	CL 33	Grid-tied PV inverter	TUV NORD & Shenzhen Balun	2021/02/09	TRPVP11115/20B/01_R2	COCPPV11115/20B_R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Schneider	CL50	Grid-tied PV inverter	TUV NORD & Shenzhen Balun	2021/02/09	TRPVP11115/20B/01_R2	COCPPV11115/20B_R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Sermatec	SMT-5K-TL-LV	Hybrid PV inverter grid-tied	TUV SUD	2019/06/25	64.290.18.01473.01	D 102650 0007	Yes		
Sermatec	SMT-10K-TL-TH	Hybrid PV inverter grid-tied	TUV SUD	2019/07/25	64.290.18.04743.01	D 102650 0009	Yes		
Sinexcel	PWG2-50K-EX	Hybrid PV inverter grid-tied	TUV SUD	2021/09/10	64.290.21.30201.02	D 076777 0016 Rev. 01	Yes		Inverter may only be used in plants according to Category A3: 100 kVA - 1MVA. Inverter not equipped with an internal disconnection device and an external City listed network and system grid protection voltage and frequency relay must be provided with appropriately sized electromechanical switches.
Sinexcel	PWG2-100K-EX	Hybrid PV inverter grid-tied	TUV SUD	2021/09/10	64.290.21.30201.02	D 076777 0016 Rev. 01	Yes		Inverter may only be used in plants according to Category A3: 100 kVA - 1MVA. Inverter not equipped with an internal disconnection device and an external City listed network and system grid protection voltage and frequency relay must be provided with appropriately sized electromechanical switches. Inverter may only be used in plants according to category A3: 100 kVA - 1MVA and connection to the grid via an external customer MV/LV AC transformer.
SMA	STP50-40	Grid-tied PV inverter	Bureau Veritas	2018/06/29	17TH0199-NRS 097-2-1_2	U18-0334	Yes		Inverter may only be used in plants according to category A3: 100 kVA - 1MVA and connection to the grid via an external customer MV/LV AC transformer.
SMA	STP60-10	Grid-tied PV inverter	Bureau Veritas	2018/09/26	14TH0075-NRS 097-2-1_3	U18-0451	Yes		

SMA	SHP75-10	Grid-tied PV inverter	Bureau Veritas	2018/09/26	14TH0075-NRS 097-2-1_3	U18-0451	Yes		inverter may only be used in plants according to Category A3: 100 kVA - 1MVA and connection to the grid via an external customer MVLV AC transformer.
SMA	STPS 60-10	Battery based PV inverter grid-tied	Bureau Veritas	2018/09/26	14TH0075-NRS 097-2-1_3	U18-0451	Yes		inverter may only be used in plants according to Category A3: 100 kVA - 1MVA and connection to the grid via an external customer MVLV AC transformer.
SMA	SB3.0-1AV-41	Grid-tied PV inverter	Bureau Veritas	2020/07/24	16TH0348-NRS 097-2-1_0	U20-0605		Yes	The unit must be provided with an external RCMU type B.
SMA	SB3.6-1AV-41	Grid-tied PV inverter	Bureau Veritas	2020/07/24	16TH0348-NRS 097-2-1_0	U20-0605		Yes	The unit must be provided with an external RCMU type B.
SMA	SB4.0-1AV-41	Grid-tied PV inverter	Bureau Veritas	2020/07/24	16TH0348-NRS 097-2-1_0	U20-0605		Yes	The unit must be provided with an external RCMU type B.
SMA	SB5.0-1AV-41	Grid-tied PV inverter	Bureau Veritas	2020/07/24	16TH0348-NRS 097-2-1_0	U20-0605		Yes	The unit must be provided with an external RCMU type B.
SMA	STP 15000TL-30	Grid-tied PV inverter	Bureau Veritas	2020/08/13	14TH0304-NRS 097-2-1-2017_0	U20-0641		Yes	
SMA	STP 20000TL-30	Grid-tied PV inverter	Bureau Veritas	2020/08/13	14TH0304-NRS 097-2-1-2017_0	U20-0641		Yes	
SMA	STP 25000TL-30	Grid-tied PV inverter	Bureau Veritas	2020/08/13	14TH0304-NRS 097-2-1-2017_0	U20-0641		Yes	
SMA	STP 110-60	Grid-tied PV inverter	TUV SUD	2021/01/21	704092001861-00	D 0701220019 Rev. 00		Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
SMA	STP3.0-3AV-40	Grid-tied PV inverter	Bureau Veritas	2021/07/14	18TH0325-NRS-2-1_0	U21-0661		Yes	
SMA	STP4.0-3AV-40	Grid-tied PV inverter	Bureau Veritas	2021/07/14	18TH0325-NRS-2-1_0	U21-0661		Yes	
SMA	STP5.0-3AV-40	Grid-tied PV inverter	Bureau Veritas	2021/07/14	18TH0325-NRS-2-1_0	U21-0661		Yes	
SMA	STP8.0-3AV-40	Grid-tied PV inverter	Bureau Veritas	2021/07/14	18TH0325-NRS-2-1_0	U21-0661		Yes	
SMA	STP10.0-3AV-40	Grid-tied PV inverter	Bureau Veritas	2021/07/14	18TH0325-NRS-2-1_0	U21-0661		Yes	
SMA	STP5.0-3SE-40	Hybrid PV inverter grid-tied	TUV Rheinland	2022/02/21	CN210918_001	AK 50510847_0001		Yes	
SMA	STP8.0-3SE-40	Hybrid PV inverter grid-tied	TUV Rheinland	2022/02/21	CN210918_001	AK 50510847_0001		Yes	
SMA	STP10.0-3SE-40	Hybrid PV inverter grid-tied	TUV Rheinland	2022/02/21	CN210918_001	AK 50510847_0001		Yes	
Solar Solar	HYD 6000-ES	Hybrid PV inverter grid-tied	Intertek	2019/07/16	190603089GZU-001	190603089GZU-001		Yes	
Solar Solar	HYD 5000-ES	Hybrid PV inverter grid-tied	Intertek	2019/07/16	190603089GZU-001	190603089GZU-001		Yes	
Solar Solar	HYD 4000-ES	Hybrid PV inverter grid-tied	Intertek	2019/07/16	190603089GZU-001	190603089GZU-001		Yes	
Solar Solar	HYD 3600-ES	Hybrid PV inverter grid-tied	Intertek	2019/07/16	190603089GZU-001	190603089GZU-001		Yes	
Solar Solar	HYD 3000-ES	Hybrid PV inverter grid-tied	Intertek	2019/07/16	190603089GZU-001	190603089GZU-001		Yes	
Solar Solar	60000TL	Grid-tied PV inverter	Intertek	2019/12/19	191025090GZU-001	CN-PV-190090		Yes	
Solar Solar	50000TL	Grid-tied PV inverter	Intertek	2019/12/19	191025090GZU-001	CN-PV-190090		Yes	
Solar Solar	HYD 5KTL-3PH	Hybrid PV inverter grid-tied	Shenzhen Balun	2020/07/10	BL-DG2060517-B01	BL-DG2060517D01		Yes	
Solar Solar	HYD 6KTL-3PH	Hybrid PV inverter grid-tied	Shenzhen Balun	2020/07/10	BL-DG2060517-B01	BL-DG2060517D01		Yes	
Solar Solar	HYD 8KTL-3PH	Hybrid PV inverter grid-tied	Shenzhen Balun	2020/07/10	BL-DG2060517-B01	BL-DG2060517D01		Yes	
Solar Solar	HYD 10KTL-3PH	Hybrid PV inverter grid-tied	Shenzhen Balun	2020/07/10	BL-DG2060517-B01	BL-DG2060517D01		Yes	
Solar Solar	HYD 15KTL-3PH	Hybrid PV inverter grid-tied	Shenzhen Balun	2020/07/10	BL-DG2060517-B01	BL-DG2060517D01		Yes	
Solar Solar	HYD 20KTL-3PH	Hybrid PV inverter grid-tied	Shenzhen Balun	2020/07/10	BL-DG2060517-B01	BL-DG2060517D01		Yes	
Solar Solar	3KTL-M-G3	Grid-tied PV inverter	Intertek	2021/08/09	210715145GZU-002	CN-PV-210185		Yes	
Solar Solar	3.6KTL-M-G3	Grid-tied PV inverter	Intertek	2021/08/09	210715145GZU-002	CN-PV-210185		Yes	
Solar Solar	4KTL-M-G3	Grid-tied PV inverter	Intertek	2021/08/09	210715145GZU-002	CN-PV-210185		Yes	
Solar Solar	4.6KTL-M-G3	Grid-tied PV inverter	Intertek	2021/08/09	210715145GZU-002	CN-PV-210185		Yes	
Solar Solar	5KTL-M-G3	Grid-tied PV inverter	Intertek	2021/08/09	210715145GZU-002	CN-PV-210185		Yes	
Solar Solar	5KTL-M-G3-A	Grid-tied PV inverter	Intertek	2021/08/09	210715145GZU-002	CN-PV-210185		Yes	
Solar Solar	6KTL-M-G3	Grid-tied PV inverter	Intertek	2021/08/09	210715145GZU-002	CN-PV-210185		Yes	
SolarEdge	SE25K	Grid-tied PV inverter	Bureau Veritas	2020/12/19	19TH0534-NRS 097-2-1_2	U20-1043		Yes	Grid connection inverter for 230 V, L-N / 400Vac, L-L output only and is intended with and without AC transformer for Category A2 and A3 plant.
SolarEdge	SE27.6K	Grid-tied PV inverter	Bureau Veritas	2020/12/19	19TH0534-NRS 097-2-1_2	U20-1043		Yes	Grid connection inverter for 230 V, L-N / 400Vac, L-L output only and is intended with and without AC transformer for Category A2 and A3 plant.
SolarEdge	SE30K	Grid-tied PV inverter	Bureau Veritas	2020/12/19	19TH0534-NRS 097-2-1_2	U20-1043		Yes	For 277 Vac L-N / 480 Vac L-L, grid, inverter may only be used in plants according to Category A3: 100 kVA - 1MVA and connection to the grid via an external customer MVLV AC transformer. Grid connection inverter with 230 V, L-N / 400Vac, L-L output is intended with and without AC transformer for Category A2 and A3 plant.
SolarEdge	SE33.3K	Grid-tied PV inverter	Bureau Veritas	2020/12/19	19TH0534-NRS 097-2-1_2	U20-1043		Yes	For 277 Vac L-N / 480 Vac L-L, grid, inverter may only be used in plants according to Category A3: 100 kVA - 1MVA and connection to the grid via an external customer MVLV AC transformer. Grid connection inverter with 230 V, L-N / 400Vac, L-L output is intended with and without AC transformer for Category A2 and A3 plant.
SolarEdge	SE40K	Grid-tied PV inverter	Bureau Veritas	2020/12/19	19TH0534-NRS 097-2-1_2	U20-1043		Yes	For both 230 V, L-N / 400Vac, L-L and 277 Vac L-N / 480 Vac L-L output, inverter may only be used in plants according to Category A3: 100 kVA - 1MVA and connection to the grid via an external customer MVLV AC transformer.
SolarEdge	SE50K	Grid-tied PV inverter	Bureau Veritas	2021/06/07	20TH0532-NRS 097-2-1_0	U21-0499		Yes	Grid connection inverter for 230 V, L-N / 400Vac, L-L output only and is intended with and without AC transformer for Category A2 and A3 plant.
SolarEdge	SE55K	Grid-tied PV inverter	Bureau Veritas	2021/06/07	20TH0532-NRS 097-2-1_0	U21-0499		Yes	Grid connection inverter for 230 V, L-N / 400Vac, L-L output only and is intended with and without AC transformer for Category A2 and A3 plant.
SolarEdge	SE66.6K	Grid-tied PV inverter	Bureau Veritas	2021/06/07	20TH0532-NRS 097-2-1_0	U21-0499		Yes	Grid connection inverter for 230 V, L-N / 400Vac, L-L output only and is intended with and without AC transformer for Category A2 and A3 plant.
SolarEdge	SE82.8K	Grid-tied PV inverter	Bureau Veritas	2021/06/07	20TH0532-NRS 097-2-1_0	U21-0499		Yes	Grid connection inverter for 230 V, L-N / 400Vac, L-L output only and is intended with and without AC transformer for Category A2 and A3 plant.
SolarEdge	SE100K	Grid-tied PV inverter	Bureau Veritas	2021/06/07	20TH0532-NRS 097-2-1_0	U21-0499		Yes	Grid connection inverter for 230 V, L-N / 400Vac, L-L output only and is intended with and without AC transformer for Category A2 and A3 plant.
SolarEdge	SE66.6K*	Grid-tied PV inverter	Bureau Veritas	2021/06/07	20TH0532-NRS 097-2-1_0	U21-0499		Yes	Model with AC output voltage 277 Vac L-N / 480 Vac L-L is intended for grid connection with an external customer MVLV AC transformer and only for plants with Category A3: 100 kVA - 1MVA.
SolarEdge	SE80K*	Grid-tied PV inverter	Bureau Veritas	2021/06/07	20TH0532-NRS 097-2-1_0	U21-0499		Yes	For both 230 V, L-N / 400Vac, L-L and 277 Vac L-N / 480 Vac L-L output, inverter may only be used in plants according to Category A3: 100 kVA - 1MVA and connection to the grid via an external customer MVLV AC transformer.
SolarEdge	SE120K*	Grid-tied PV inverter	Bureau Veritas	2021/06/07	20TH0532-NRS 097-2-1_0	U21-0499		Yes	For both 230 V, L-N / 400Vac, L-L and 277 Vac L-N / 480 Vac L-L output, inverter may only be used in plants according to Category A3: 100 kVA - 1MVA and connection to the grid via an external customer MVLV AC transformer.
SolarEdge	SE75K	Grid-tied PV inverter	Bureau Veritas	2021/04/01	17TH0209-NRS 097-2-1_2	U21-0295		Yes	
SolarEdge	SE 2000H	Hybrid PV inverter grid-tied	Bureau Veritas	2022/01/26	16TH0371-NRS 097-2-1_1	U22-0010		Yes	
SolarEdge	SE 4000H	Hybrid PV inverter grid-tied	Bureau Veritas	2022/01/26	16TH0371-NRS 097-2-1_1	U22-0010		Yes	
SolarEdge	SE 5000H	Hybrid PV inverter grid-tied	Bureau Veritas	2022/01/26	16TH0371-NRS 097-2-1_1	U22-0010		Yes	
SolarEdge	SE 6000H	Hybrid PV inverter grid-tied	Bureau Veritas	2022/01/26	16TH0371-NRS 097-2-1_1	U22-0010		Yes	
SolarEdge	SE3K	Grid-tied PV inverter	TUV SUD	2021/09/03	713224660_000	D 082496 0022 Rev.00		Yes	

Solis	Solis-1P3K4-G	Grid-tied PV inverter	Dakra	2017/11/10	6018912.50	6018912.01AOC	Yes		
Solis	Solis-1P3.6K4-G	Grid-tied PV inverter	Dakra	2017/11/10	6018912.50	6018912.01AOC	Yes		
Solis	Solis-1P4K4-G	Grid-tied PV inverter	Dakra	2017/11/10	6018912.50	6018912.01AOC	Yes		
Solis	Solis-1P4.6K4-G	Grid-tied PV inverter	Dakra	2017/11/10	6018912.50	6018912.01AOC	Yes		
Solis	Solis-20K	Grid-tied PV inverter	TUV SUD	2018/03/19	50128276 001	AK 50402840 0001	Yes		
Solis	Solis-25K	Grid-tied PV inverter	TUV SUD	2018/03/19	50128276 001	AK 50402840 0001	Yes		
Solis	Solis-30K	Grid-tied PV inverter	TUV SUD	2018/03/19	50128276 001	AK 50402840 0001	Yes		
Solis	Solis-40K	Grid-tied PV inverter	TUV SUD	2018/03/22	50131287 001	AK 50403257 0001	Yes		
Solis	Solis-50K	Grid-tied PV inverter	TUV SUD	2018/03/22	50131287 001	AK 50403257 0001	Yes		
Solis	Solis-3P5K4-G	Grid-tied PV inverter	TUV Rheinland	2018/08/24	50173799 001	AK 50416579 0001	Yes		
Solis	Solis-3P6K4-G	Grid-tied PV inverter	TUV Rheinland	2018/08/24	50173799 001	AK 50416579 0001	Yes		
Solis	Solis-3P8K4-G	Grid-tied PV inverter	TUV Rheinland	2018/08/24	50173799 001	AK 50416579 0001	Yes		
Solis	Solis-3P9K4-G	Grid-tied PV inverter	TUV Rheinland	2018/08/24	50173799 001	AK 50416579 0001	Yes		
Solis	Solis-3P10K4-G	Grid-tied PV inverter	TUV Rheinland	2018/08/24	50173799 001	AK 50416579 0001	Yes		
Solis	Solis-3P12K4-G	Grid-tied PV inverter	TUV Rheinland	2018/08/24	50173799 001	AK 50416579 0001	Yes		
Solis	Solis-3P15K4-G	Grid-tied PV inverter	TUV Rheinland	2018/08/24	50173799 001	AK 50416579 0001	Yes		
Solis	Solis-3P17K4-G	Grid-tied PV inverter	TUV Rheinland	2018/08/24	50173799 001	AK 50416579 0001	Yes		
Solis	Solis-3P20K4-G	Grid-tied PV inverter	TUV Rheinland	2018/08/24	50173799 001	AK 50416579 0001	Yes		
Solis	Solis-RHI-3K-48ES	Hybrid PV inverter grid-tied	TUV Rheinland	2020/12/22	704092008124-00	D 0864700076 Rev 00	Yes	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-RHI-3K-48ES-5G	Hybrid PV inverter grid-tied	TUV Rheinland	2020/12/22	704092008124-00	D 0864700076 Rev 00	Yes	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-RHI-3.6-48ES	Hybrid PV inverter grid-tied	TUV Rheinland	2020/12/22	704092008124-00	D 0864700076 Rev 00	Yes	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-RHI-3.6-48ES-5G	Hybrid PV inverter grid-tied	TUV Rheinland	2020/12/22	704092008124-00	D 0864700076 Rev 00	Yes	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-RHI-4.6K-48ES	Hybrid PV inverter grid-tied	TUV Rheinland	2020/12/22	704092008124-00	D 0864700076 Rev 00	Yes	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-RHI-4.6K-48ES-5G	Hybrid PV inverter grid-tied	TUV Rheinland	2020/12/22	704092008124-00	D 0864700076 Rev 00	Yes	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-RHI-5K-48ES-5G	Hybrid PV inverter grid-tied	TUV Rheinland	2020/12/22	704092008124-00	D 0864700076 Rev 00	Yes	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-RHI-6K-48ES-5G	Hybrid PV inverter grid-tied	TUV Rheinland	2020/12/22	704092008124-00	D 0864700076 Rev 00	Yes	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-40K-FB	Grid-tied PV inverter	TUV Rheinland	2019/05/08	50249422 001	AK 50436157 0001	Yes		
Solis	Solis-50K-FB	Grid-tied PV inverter	TUV Rheinland	2019/05/08	50249422 001	AK 50436157 0001	Yes		
Solis	Solis-60K4-G-FB	Grid-tied PV inverter	TUV Rheinland	2019/05/08	50249422 001	AK 50436157 0001	Yes		
Solis	Solis-25K-5G	Grid-tied PV inverter	TUV Rheinland	2020/03/11	50344275 001	AK 50459291 0001	Yes		
Solis	Solis-30K-5G	Grid-tied PV inverter	TUV Rheinland	2020/03/11	50344275 001	AK 50459291 0001	Yes		
Solis	Solis-33K-5G	Grid-tied PV inverter	TUV Rheinland	2020/03/11	50344275 001	AK 50459291 0001	Yes		
Solis	Solis-36K-5G	Grid-tied PV inverter	TUV Rheinland	2020/03/11	50344275 001	AK 50459291 0001	Yes		
Solis	Solis-40K-5G	Grid-tied PV inverter	TUV Rheinland	2020/03/11	50344275 001	AK 50459291 0001	Yes		
Solis	Solis-80K-5G	Grid-tied PV inverter	TUV Rheinland	2020/12/23	50376758 003	AK 50489595 0001	Yes		
Solis	Solis-90K-5G	Grid-tied PV inverter	TUV Rheinland	2020/12/23	50376758 003	AK 50489595 0001	Yes		
Solis	Solis-100K-5G	Grid-tied PV inverter	TUV Rheinland	2020/12/23	50376758 003	AK 50489595 0001	Yes		
Solis	Solis-110K-5G	Grid-tied PV inverter	TUV Rheinland	2020/12/23	50376758 003	AK 50489595 0001	Yes		
Solis	Solis-100K-5G-SA	Grid-tied PV inverter	TUV Rheinland	2020/12/23	50376758 003	AK 50489595 0001	Yes		
Solis	Solis-110K-5G-SA	Grid-tied PV inverter	TUV Rheinland	2020/12/23	50376758 003	AK 50489595 0001	Yes		
Solis	Solis RHI-3P5K-HVES-5G	Hybrid PV inverter grid-tied	TUV SUD	2020/12/22	704092008125-00	D 086470 0075 Rev.00	Yes	Yes	
Solis	Solis RHI-3P6K-HVES-5G	Hybrid PV inverter grid-tied	TUV SUD	2020/12/22	704092008125-00	D 086470 0075 Rev.00	Yes	Yes	
Solis	Solis RHI-3P6K-HVES-5G	Hybrid PV inverter grid-tied	TUV SUD	2020/12/22	704092008125-00	D 086470 0075 Rev.00	Yes	Yes	
Solis	Solis RHI-3P10K-HVES-5G	Hybrid PV inverter grid-tied	TUV SUD	2020/12/22	704092008125-00	D 086470 0075 Rev.00	Yes	Yes	
Solis	Solis S5-GC50K	Grid-tied PV inverter	TUV Rheinland	2021/07/28	CN21F7XT 0001	AK 50510984 0001	Yes		
Solis	Solis S5-GC60K	Grid-tied PV inverter	TUV Rheinland	2021/07/28	CN21F7XT 0001	AK 50510984 0001	Yes		
Solis	Solis S5-GC60K-HV	Grid-tied PV inverter	TUV Rheinland	2021/07/28	CN21F7XT 0001	AK 50510984 0001	Yes		
Solis	Solis S5-GC70K-HV	Grid-tied PV inverter	TUV Rheinland	2021/07/28	CN21F7XT 0001	AK 50510984 0001	Yes		
Solplanet	ASW30K-LT-G2	Grid-tied PV inverter	TUV SUD	2022/07/25	70.409.22.286.25-00	D 099567 0067 Rev.00	Yes		
Solplanet	ASW33K-LT-G2	Grid-tied PV inverter	TUV SUD	2022/07/25	70.409.22.286.25-00	D 099567 0067 Rev.00	Yes		
Solplanet	ASW36K-LT-G2	Grid-tied PV inverter	TUV SUD	2022/07/25	70.409.22.286.25-00	D 099567 0067 Rev.00	Yes		
Solplanet	ASW40K-LT-G2	Grid-tied PV inverter	TUV SUD	2022/07/25	70.409.22.286.25-00	D 099567 0067 Rev.00	Yes		
Solplanet	ASW45K-LT-G2	Grid-tied PV inverter	TUV SUD	2022/07/25	70.409.22.286.25-00	D 099567 0067 Rev.00	Yes		
Solplanet	ASW50K-LT-G2	Grid-tied PV inverter	TUV SUD	2022/07/25	70.409.22.286.25-00	D 099567 0067 Rev.00	Yes		
Solplanet	ASW40K-LT-G2 Pro	Grid-tied PV inverter	TUV SUD	2022/07/25	70.409.22.286.25-00	D 099567 0067 Rev.00	Yes		
Solplanet	ASW45K-LT-G2 Pro	Grid-tied PV inverter	TUV SUD	2022/07/25	70.409.22.286.25-00	D 099567 0067 Rev.00	Yes		
Solplanet	ASW50K-LT-G2 Pro	Grid-tied PV inverter	TUV SUD	2022/07/25	70.409.22.286.25-00	D 099567 0067 Rev.00	Yes		
Sollaro	SOL-10KW-3P	Hybrid PV inverter grid-tied	TUV SUD	2019/07/26	6429018047301A	D 104877 0003	Yes		
Sungrow	SH5K-20	Hybrid PV inverter grid-tied	Dakra	2018/05/31	6025450.51	6025450.02AOC	Yes		
Sungrow	SH5K-30	Hybrid PV inverter grid-tied	Dakra	2020/03/27	6072682.50	6072682.01AOC	Yes		
Sungrow	SG36KTL-M	Grid-tied PV inverter	TUV SUD	2018/03/26	704091708604-01	D180373342197	Yes		
Sungrow	SG60KTL	Grid-tied PV inverter	TUV SUD	2018/02/08	704091708605-01	D180173342198	Yes		
Sungrow	SG80KTL	Grid-tied PV inverter	Dakra	2018/07/11	6035428.50	6035428.01AOC	Yes		
Sungrow	SG80KTL-20	Grid-tied PV inverter	Dakra	2018/07/11	6035428.50	6035428.01AOC	Yes		
Sungrow	SG33CX	Grid-tied PV inverter	TUV NORD & Shenzhen Balun	2020/03/19	TRSHV11090/19/01_R2	COCSHV11090/19-01_R1	Yes		
Sungrow	SG40CX	Grid-tied PV inverter	TUV NORD & Shenzhen Balun	2020/03/19	TRSHV11090/19/01_R2	COCSHV11090/19-01_R1	Yes		
Sungrow	SG50CX	Grid-tied PV inverter	TUV NORD & Shenzhen Balun	2020/03/19	TRSHV11090/19/01_R2	COCSHV11090/19-01_R1	Yes		
Sungrow	SG110CX	Grid-tied PV inverter	TUV NORD & Shenzhen Balun	2020/03/19	TRSHV11090/19/02_R2	COCSHV11090/19-02_R1	Yes		

Sungrow	SH5.0RT	Hybrid PV inverter grid-tied	TÜV NORD & Shenzhen Balun	2020/07/24	TRSHV11090/19/03	COCSHV11090/19-04	Yes		
Sungrow	SH6.0RT	Hybrid PV inverter grid-tied	TÜV NORD & Shenzhen Balun	2020/07/24	TRSHV11090/19/03	COCSHV11090/19-04	Yes		
Sungrow	SH8.0RT	Hybrid PV inverter grid-tied	TÜV NORD & Shenzhen Balun	2020/07/24	TRSHV11090/19/03	COCSHV11090/19-04	Yes		
Sungrow	SH10RT	Hybrid PV inverter grid-tied	TÜV NORD & Shenzhen Balun	2020/07/24	TRSHV11090/19/03	COCSHV11090/19-04	Yes		
Sungrow	SC50HV	Battery based inverter grid-tied	TUV SUD	2021/08/09	704092103524-00	D 0733420345 Rev.00		Yes	
Sungrow	SC50HV-20	Battery based inverter grid-tied	TUV SUD	2021/08/09	704092103524-00	D 0733420345 Rev.00		Yes	
Sungrow	SH3.0RS	Hybrid PV inverter grid-tied	TUV Rheinland	2022/03/15	CN22QHUH 001	AK 50536847 0001		Yes	
Sungrow	SH3.6RS	Hybrid PV inverter grid-tied	TUV Rheinland	2022/03/15	CN22QHUH 001	AK 50536847 0001		Yes	
Sungrow	SH4.0RS	Hybrid PV inverter grid-tied	TUV Rheinland	2022/03/15	CN22QHUH 001	AK 50536847 0001		Yes	
Sungrow	SH5.0RS	Hybrid PV inverter grid-tied	TUV Rheinland	2022/03/15	CN22QHUH 001	AK 50536847 0001		Yes	
Sungrow	SH6.0RS	Hybrid PV inverter grid-tied	TUV Rheinland	2022/03/15	CN22QHUH 001	AK 50536847 0001		Yes	
Sungrow	SG75CX-P2	Grid-tied PV inverter	TUV Rheinland	2022/03/16	CN224TCO 001	AK 50536779 0001		Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Sungrow	SG100CX-P2	Grid-tied PV inverter	TUV Rheinland	2022/03/16	CN224TCO 001	AK 50536779 0001		Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Sungrow	SG125CX-P2	Grid-tied PV inverter	TUV Rheinland	2022/03/16	CN224TCO 001	AK 50536779 0001		Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Sunpro	SP3KL1	Hybrid PV inverter grid-tied	TUV SUD	2022/08/16	64.290.22.30154.01	D 107931.0034 Rev.00		Yes	
Sunpro	SP3KL1	Hybrid PV inverter grid-tied	TUV SUD	2022/08/16	64.290.22.30154.01	D 107931.0034 Rev.00		Yes	
Sunpro	SP4KL1	Hybrid PV inverter grid-tied	TUV SUD	2022/08/16	64.290.22.30154.01	D 107931.0034 Rev.00		Yes	
Sunpro	SP4KL1	Hybrid PV inverter grid-tied	TUV SUD	2022/08/16	64.290.22.30154.01	D 107931.0034 Rev.00		Yes	
Sunpro	SP5KL1	Hybrid PV inverter grid-tied	TUV SUD	2022/08/16	64.290.22.30154.01	D 107931.0034 Rev.00		Yes	
Sunpro	SP6KL1	Hybrid PV inverter grid-tied	TUV SUD	2022/08/16	64.290.22.30154.01	D 107931.0034 Rev.00		Yes	
Sunsynk	Sunsynk-8K-SG01LP1	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/30	BL-DG2220307-B01	BL-DG2220307D03		Yes	
Sunsynk	Sunsynk-7.6K-SG01LP1	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/30	BL-DG2220307-B01	BL-DG2220307D03		Yes	
Sunsynk	Sunsynk-6K-SG01LP1	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/30	BL-DG2220307-B01	BL-DG2220307D03		Yes	
Sunsynk	Sunsynk-5K-SG01LP1	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/30	BL-DG2220307-B01	BL-DG2220307D03		Yes	
Sunsynk	Sunsynk-3.6K-SG01LP1	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/30	BL-DG2220307-B01	BL-DG2220307D03		Yes	
Sunsynk	Sunsynk-8K-SG02LP1	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/30	BL-DG2220307-B01	BL-DG2220307D03		Yes	
Sunsynk	Synk-7.6K-SG02LP1	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/30	BL-DG2220307-B01	BL-DG2220307D03		Yes	
Sunsynk	Synk-6K-SG02LP1	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/30	BL-DG2220307-B01	BL-DG2220307D03		Yes	
Sunsynk	Synk-5K-SG02LP1	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/30	BL-DG2220307-B01	BL-DG2220307D03		Yes	
Sunsynk	Synk-3.6K-SG02LP1	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/30	BL-DG2220307-B01	BL-DG2220307D03		Yes	
Sunsynk	Synk-8K-SG02LP1-B	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/30	BL-DG2220307-B01	BL-DG2220307D03		Yes	
Sunsynk	Synk-7.6K-SG02LP1-B	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/30	BL-DG2220307-B01	BL-DG2220307D03		Yes	
Sunsynk	Synk-6K-SG02LP1-B	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/30	BL-DG2220307-B01	BL-DG2220307D03		Yes	
Sunsynk	Synk-5K-SG02LP1-B	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/30	BL-DG2220307-B01	BL-DG2220307D03		Yes	
Sunsynk	Synk-12K-SG01LP1	Hybrid PV inverter grid-tied	TUV Rheinland	2022/05/31	CN222MSO 002	AK 50546025 0001		Yes	
Sunsynk	Synk-14K-SG01LP1	Hybrid PV inverter grid-tied	TUV Rheinland	2022/05/31	CN222MSO 002	AK 50546025 0001		Yes	
Sunsynk	Synk-16K-SG01LP1	Hybrid PV inverter grid-tied	TUV Rheinland	2022/05/31	CN222MSO 002	AK 50546025 0001		Yes	
Sunsynk	SYNK-6K-SG04LP3	Hybrid PV inverter grid-tied	TÜV NORD & Shenzhen Balun	2021/06/10	BL-DG2160287-B01	BL-DG2160288D01		Yes	
Sunsynk	SYNK-8K-SG04LP3	Hybrid PV inverter grid-tied	TÜV NORD & Shenzhen Balun	2021/06/10	BL-DG2160287-B01	BL-DG2160288D01		Yes	
Sunsynk	SYNK-10K-SG04LP3	Hybrid PV inverter grid-tied	TÜV NORD & Shenzhen Balun	2021/06/10	BL-DG2160287-B01	BL-DG2160288D01		Yes	
Sunsynk	SYNK-12K-SG04LP3	Hybrid PV inverter grid-tied	TÜV NORD & Shenzhen Balun	2021/06/10	BL-DG2160287-B01	BL-DG2160288D01		Yes	
Sunways	STH-4KTL-HT	Hybrid PV inverter grid-tied	TUV SUD	2021/01/14	704092001222-00	D 104339.0044 Rev. 00		Yes	
Sunways	STH-5KTL-HT	Hybrid PV inverter grid-tied	TUV SUD	2021/01/14	704092001222-00	D 104339.0044 Rev. 00		Yes	
Sunways	STH-6KTL-HT	Hybrid PV inverter grid-tied	TUV SUD	2021/01/14	704092001222-00	D 104339.0044 Rev. 00		Yes	
Sunways	STH-8KTL-HT	Hybrid PV inverter grid-tied	TUV SUD	2021/01/14	704092001222-00	D 104339.0044 Rev. 00		Yes	
Sunways	STH-10KTL-HT	Hybrid PV inverter grid-tied	TUV SUD	2021/01/14	704092001222-00	D 104339.0044 Rev. 00		Yes	
Sunways	STH-12KTL-HT	Hybrid PV inverter grid-tied	TUV SUD	2021/01/14	704092001222-00	D 104339.0044 Rev. 00		Yes	
Sunways	STH-3KTL-HSS	Hybrid PV inverter grid-tied	TUV SUD	2021/12/08	704092101617-00	D 104339.0065 Rev.00		Yes	
Sunways	STH-3KTL-HS	Hybrid PV inverter grid-tied	TUV SUD	2021/12/08	704092101617-00	D 104339.0065 Rev.00		Yes	
Sunways	STH-3.6KTL-HSS	Hybrid PV inverter grid-tied	TUV SUD	2021/12/08	704092101617-00	D 104339.0065 Rev.00		Yes	
Sunways	STH-3.6KTL-HS	Hybrid PV inverter grid-tied	TUV SUD	2021/12/08	704092101617-00	D 104339.0065 Rev.00		Yes	
Sunways	STH-4.2KTL-HS	Hybrid PV inverter grid-tied	TUV SUD	2021/12/08	704092101617-00	D 104339.0065 Rev.00		Yes	
Sunways	STH-4.6KTL-HS	Hybrid PV inverter grid-tied	TUV SUD	2021/12/08	704092101617-00	D 104339.0065 Rev.00		Yes	
Sunways	STH-5KTL-HS	Hybrid PV inverter grid-tied	TUV SUD	2021/12/08	704092101617-00	D 104339.0065 Rev.00		Yes	
Sunways	STH-6KTL-HS	Hybrid PV inverter grid-tied	TUV SUD	2021/12/08	704092101617-00	D 104339.0065 Rev.00		Yes	
Sunways	STH-7KTL-HS	Hybrid PV inverter grid-tied	TUV SUD	2021/12/08	704092101617-00	D 104339.0065 Rev.00		Yes	
Sunways	STH-8KTL-HS	Hybrid PV inverter grid-tied	TUV SUD	2021/12/08	704092101617-00	D 104339.0065 Rev.00		Yes	
TBB Power	Apollo Matrix 3.0S	Hybrid PV inverter grid-tied	TÜV NORD (Hangzhou)	2022/03/03	TRPVP12002/21B-01	COCPPV12002/21B-01		Yes	
TBB Power	Apollo Matrix 3.0M	Hybrid PV inverter grid-tied	TÜV NORD (Hangzhou)	2022/03/03	TRPVP12002/21B-01	COCPPV12002/21B-01		Yes	
TBB Power	Apollo Matrix 5.0S	Hybrid PV inverter grid-tied	TÜV NORD (Hangzhou)	2022/03/03	TRPVP12002/21B-01	COCPPV12002/21B-01		Yes	
TELE Haase Steuergeräte	NA003	Network & system relay	Primara	2018/09/20	14PP035-12	18-315-00	Yes		Network and system grid protection voltage and frequency relay only and may only be used in conjunction with approved NRS 097-2-1 type tested inverters on this list.
Tesla	AC Powerwall 109/2170-xxy	Battery based inverter grid-tied	Interlek	2020/05/20	102591059CRT-051c	102591059CRT-051c	Yes		
Tesla	AC Powerwall 21/2170-xxy	Battery based inverter grid-tied	Interlek	2020/05/20	102591059CRT-051c	102591059CRT-051c	Yes		
Victron	MultiGrid 12/3000/120-50	Battery based PV inverter grid-tied	Primara	2017/11/20	16PP183-06 1	17-303-00	Yes		
Victron	MultiGrid 24/3000/70-50	Battery based PV inverter grid-tied	Primara	2017/11/20	16PP183-06 1	17-303-00	Yes		
Victron	MultiGrid 48/3000/35-50	Battery based PV inverter grid-tied	Primara	2017/11/20	16PP183-06 1	17-303-00	Yes		
Victron	MultiGrid - II 48/3000/35-32	Battery based PV inverter grid-tied	Primara	2018/10/02	17PP264-07 1	18-320-00	Yes		
Victron	MultiPlus - II 48/3000/35-32	Battery based PV inverter grid-tied	Kiwa Primara	2019/08/22	17PP264-07 3	18-320-01	Yes		
Victron	MultiPlus - II 48/3000/35-32GX	Battery based PV inverter grid-tied	Kiwa Primara	2019/08/22	17PP264-07 3	18-320-01	Yes		
Victron	MultiPlus - II 48/5000/70-50	Battery based PV inverter grid-tied	Kiwa Primara	2019/08/22	17PP264-07 3	18-320-01	Yes		
Voltronic	InfiniSolar 10k	Hybrid PV inverter grid-tied	Bureau Veritas	2020/10/30	PVZA180904N057-R1	2088AP0923N001001	Yes		
Ziehl	UFR1001E relay	Network & system relay	Bureau Veritas	2018/06/07	11TH0501-NRS 097-2-1_1	U18-0308	Yes		Network and system grid protection voltage and frequency relay only and may only be used in conjunction with approved NRS 097-2-1 type tested inverters on this list.

RCMU - residual current monitoring unit
RCD - residual current device
RCM - residual current monitoring
SPD - surge protection device

Notes:

1. The City shall not incur any liability of any nature whatsoever arising out of the publication by it of this list, or arising out of the selection by the user of a particular device. This includes liability for any losses incurred as a result of safety issues or negligence relating to the design, construction, installation, commissioning, operation and maintenance of any device listed on the list.
2. This list is for City purposes only and the use thereof as a guideline for the selection of a device is at the sole risk of the user.
3. The City does not guarantee the functionality or suitability of any device listed on the list.
4. Type testing certifications for inverters and ancillary equipment that must be added to the City's inverter list, shall be in accordance with latest NRS 097-2-1, currently NRS 097-2-1: 2017 Edition 2.1 (amended [2021-04-30]).
5. All grid-tied hybrid inverters shall be equipped with a separate suitably interlocked change-over switch if interlocked with the grid as specified in the Requirements for small scale embedded generation (SSEG) document.

<http://teamsites.capetown.gov.za/sites/esprotelmeas/SitePages/Home/.aspx/reference/PT Documents/voms/Approved inverter and equipment lto NRS 097-2-1>
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