

ENERGY DIRECTORATE

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

2023/05/08

Make	Model	Inverter / Equipment type	Test House	Certificate date	Certificate 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		28110833 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		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 - SX	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 - SX2	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-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-S.0-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	CM-UPD.M31M and CM-UPD.M31	Network & system relay	TUV SÜD	2022/10/28		713200958-000	ESY 0442500443 Rev.00	No	No	Network and system grid protection voltage and frequency relay only in accordance with VDE-AR-N 4105:2018. 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.
Afore	HNS3000HS	Hybrid PV inverter grid-tied	Dekra	2020/09/17		6076139 50	6076139.01AOC	Yes		
Afore	HNS3600HS	Hybrid PV inverter grid-tied	Dekra	2020/09/17		6076139 50	6076139.01AOC	Yes		
Afore	HNS4000HS	Hybrid PV inverter grid-tied	Dekra	2020/09/17		6076139 50	6076139.01AOC	Yes		
Afore	HNS4600HS	Hybrid PV inverter grid-tied	Dekra	2020/09/17		6076139 50	6076139.01AOC	Yes		
Afore	HNS5000HS	Hybrid PV inverter grid-tied	Dekra	2020/09/17		6076139 50	6076139.01AOC	Yes		
Afore	HNS5500HS	Hybrid PV inverter grid-tied	Dekra	2020/09/17		6076139 50	6076139.01AOC	Yes		
Afore	HNS6000HS	Hybrid PV inverter grid-tied	Dekra	2020/09/17		6076139 50	6076139.01AOC	Yes		
Afore	HNS3000HS-HV	Hybrid PV inverter grid-tied	Dekra	2020/09/18		6076141 50	6076141.01AOC V1.1	Yes		
Afore	HNS3600HS-HV	Hybrid PV inverter grid-tied	Dekra	2020/09/18		6076141 50	6076141.01AOC V1.1	Yes		
Afore	HNS4000HS-HV	Hybrid PV inverter grid-tied	Dekra	2020/09/18		6076141 50	6076141.01AOC V1.1	Yes		
Afore	HNS4600HS-HV	Hybrid PV inverter grid-tied	Dekra	2020/09/18		6076141 50	6076141.01AOC V1.1	Yes		
Afore	HNS5000HS-HV	Hybrid PV inverter grid-tied	Dekra	2020/09/18		6076141 50	6076141.01AOC V1.1	Yes		
Afore	HNS5500HS-HV	Hybrid PV inverter grid-tied	Dekra	2020/09/18		6076141 50	6076141.01AOC V1.1	Yes		
Afore	HNS6000HS-HV	Hybrid PV inverter grid-tied	Dekra	2020/09/18		6076141 50	6076141.01AOC V1.1	Yes		
Afore	AF3K-SL	Hybrid PV inverter grid-tied	Dekra	2021/03/10		6098057 50	6098057.01AOC	Yes		
Afore	AF3.6K-SL	Hybrid PV inverter grid-tied	Dekra	2021/03/10		6098057 50	6098057.01AOC	Yes		
Afore	AF4K-SL	Hybrid PV inverter grid-tied	Dekra	2021/03/10		6098057 50	6098057.01AOC	Yes		
Afore	AF4.6K-SL	Hybrid PV inverter grid-tied	Dekra	2021/03/10		6098057 50	6098057.01AOC	Yes		
Afore	AF5K-SL	Hybrid PV inverter grid-tied	Dekra	2021/03/10		6098057 50	6098057.01AOC	Yes		
Afore	AF5.5K-SL	Hybrid PV inverter grid-tied	Dekra	2021/03/10		6098057 50	6098057.01AOC	Yes		
Afore	AF6K-SL	Hybrid PV inverter grid-tied	Dekra	2021/03/10		6098057 50	6098057.01AOC	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	Battery based 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		
Blue Mountain Energy	BME-3P-WP-12 TWIN	Hybrid PV inverter grid-tied	Huachuang Technology	2023/03/20		23110JHA009-EG-ZA-002	23110JHA009-EG-ZA-C002	Yes	Yes	
Blue Mountain Energy	BME-3P-WP-15 TWIN	Hybrid PV inverter grid-tied	Huachuang Technology	2023/03/20		23110JHA009-EG-ZA-002	23110JHA009-EG-ZA-C002	Yes	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-xxK-T400GL02-E	Grid-tied PV inverter	TUV Rheinland	2021/10/29		50 376 758 007	AK 50522798 0001	Yes	Yes	(xx=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-xxK-T400GL03-E	Grid-tied PV inverter	TUV Rheinland	2021/10/29		50 376 758 007	AK 50522798 0001	Yes	Yes	(xx=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-xxK-T400GL03-E	Grid-tied PV inverter	TUV Rheinland	2021/10/29		50 376 758 007	AK 50522798 0001	Yes	Yes	(xx=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-xxK-T400GL03-E	Grid-tied PV inverter	TUV Rheinland	2021/10/29		50 376 758 007	AK 50522798 0001	Yes	Yes	(xx=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
Deye	SUN-7.6K-SG01LP1-EU	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16	BL-DG21C0114-B01 (G1)	BL-DG21C0114D02		Yes
Deye	SUN-6K-SG01LP1-EU	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16	BL-DG21C0114-B01 (G1)	BL-DG21C0114D02		Yes
Deye	SUN-5K-SG01LP1-EU	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16	BL-DG21C0114-B01 (G1)	BL-DG21C0114D02		Yes
Deye	SUN-3.6K-SG01LP1-EU	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16	BL-DG21C0114-B01 (G1)	BL-DG21C0114D02		Yes
Deye	SUN-8K-SG01LP1-EU-B	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16	BL-DG21C0114-B01 (G1)	BL-DG21C0114D02		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
Deye	SUN-6K-SG01LP1-EU-B	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16	BL-DG21C0114-B01 (G1)	BL-DG21C0114D02		Yes
Deye	SUN-5K-SG01LP1-EU-B	Hybrid PV inverter grid-tied	Dongguan Balun	2022/03/16	BL-DG21C0114-B01 (G1)	BL-DG21C0114D02		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-8K-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-8K-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	CN22M50 001	AK 50544599 0001		Yes
Deye	SUN-14K-SG01LP1-EU	Hybrid PV inverter grid-tied	TUV Rheinland	2022/05/24	CN22M50 001	AK 50544599 0001		Yes
Deye	SUN-16K-SG01LP1-EU	Hybrid PV inverter grid-tied	TUV Rheinland	2022/05/24	CN22M50 001	AK 50544599 0001		Yes
Deye	SUN-3K-SG04LP1-EU	Hybrid PV inverter grid-tied	TUV Rheinland	2022/12/13	CN22M63 001	AK 50567952 0001		Yes
Deye	SUN-3K-SG04LP1-24-EU	Hybrid PV inverter grid-tied	TUV Rheinland	2022/12/13	CN22M63 001	AK 50567952 0001		Yes
Deye	SUN-3.6K-SG04LP1-EU	Hybrid PV inverter grid-tied	TUV Rheinland	2022/12/13	CN22M63 001	AK 50567952 0001		Yes
Deye	SUN-5K-SG04LP1-EU	Hybrid PV inverter grid-tied	TUV Rheinland	2022/12/13	CN22M63 001	AK 50567952 0001		Yes
Deye	SUN-6K-SG04LP1-EU	Hybrid PV inverter grid-tied	TUV Rheinland	2022/12/13	CN22M63 001	AK 50567952 0001		Yes
Eaton	XSTH1P036P048V01	Hybrid PV inverter grid-tied	Bureau Veritas	2019/12/10	PVZA190716C26 163818-743394	U19-0642	Yes	
Eaton	XSTH1P046P048V01	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	IQ7A-72-V-W-Y-Z	Grid-tied PV inverter	EnTest	2020/11/06	P2020082402	COC2020082402		Yes
Enphase Energy	IQ7X-96-V-W-Y-Z	Grid-tied PV inverter	EnTest	2020/11/06	P2020082402	COC2020082402		Yes
Enphase Energy	IQ7PUS-72-V-W-Y-Z	Grid-tied PV inverter	EnTest	2020/11/06	P2020082402	COC2020082402		Yes
Enphase Energy	IQ7-60-V-W-Y-Z	Grid-tied PV inverter	EnTest	2020/11/06	P2020082402	COC2020082402		Yes
Enphase Energy	Q-RELAY-1P-INT	Disconnect device	EnTest	2020/11/06	P2020082402	COC2020082402		Yes
Enphase Energy	Q-RELAY-3P-INT	Disconnect device	EnTest	2020/11/06	P2020082402	COC2020082402		Yes
FOXESS	H1-6.0-E	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	H1-5.0-E	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	H1-4.6-E	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	H1-3.7-E	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	H1-3.0-E	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	AIO-H1-6.0	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	AIO-H1-5.0	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	AIO-H1-4.6	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	AIO-H1-3.7	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	AIO-H1-3.0	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	AC1-6.0-E	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	AC1-5.0-E	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	AC1-4.6-E	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	AC1-3.7-E	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	AC1-3.0-E	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	AIO-AC1-6.0	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	AIO-AC1-5.0	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	AIO-AC1-4.6	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	AIO-AC1-3.7	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	AIO-AC1-3.0	Hybrid PV inverter grid-tied	TUV NORD & Dongguan Balun	2021/05/17	TRPVP03014/21E/02	COC2020082402		Yes
FOXESS	KH7	Hybrid PV inverter grid-tied	TUV Rheinland	2022/05/05	CN22E2YS 001	AK 50542790 0001		Yes
FOXESS	KH8	Hybrid PV inverter grid-tied	TUV Rheinland	2022/05/05	CN22E2YS 001	AK 50542790 0001		Yes
FOXESS	KH9	Hybrid PV inverter grid-tied	TUV Rheinland	2022/05/05	CN22E2YS 001	AK 50542790 0001		Yes
FOXESS	KH10	Hybrid PV inverter grid-tied	TUV Rheinland	2022/05/05	CN22E2YS 001	AK 50542790 0001		Yes
FOXESS	KH10.5	Hybrid PV inverter grid-tied	TUV Rheinland	2022/05/05	CN22E2YS 001	AK 50542790 0001		Yes
FOXESS	KA7	Battery based inverter grid-tied	TUV Rheinland	2022/05/05	CN22E2YS 001	AK 50542790 0001		Yes
FOXESS	KA8	Battery based inverter grid-tied	TUV Rheinland	2022/05/05	CN22E2YS 001	AK 50542790 0001		Yes
FOXESS	KA9	Battery based inverter grid-tied	TUV Rheinland	2022/05/05	CN22E2YS 001	AK 50542790 0001		Yes
FOXESS	KA10	Battery based inverter grid-tied	TUV Rheinland	2022/05/05	CN22E2YS 001	AK 50542790 0001		Yes
FOXESS	KA10.5	Battery based inverter grid-tied	TUV Rheinland	2022/05/05	CN22E2YS 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	

1. Legend: Where V=2, 5, E or blank; W = blank or ACM; Y = INT; Z = blank, RMA or NA.
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	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 60152048 0001	Yes	
Fronius	Symo 12.5-3-M	Grid-tied PV inverter	TUV Rheinland	2020/09/22	28119635 005	AK 60152048 0001	Yes	
Fronius	Symo 15.0-3-M	Grid-tied PV inverter	TUV Rheinland	2020/09/22	28119635 005	AK 60152048 0001	Yes	
Fronius	Symo 17.5-3-M	Grid-tied PV inverter	TUV Rheinland	2020/09/22	28119635 005	AK 60152048 0001	Yes	
Fronius	Symo 20.0-3-M	Grid-tied PV inverter	TUV Rheinland	2020/09/22	28119635 005	AK 60152048 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
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 k.s. 100 kVA - 1MVA 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 k.s. 100 kVA - 1MVA 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	IT2227D0 001	AK 60161549 0001	Yes	Inverter may only be used in plants according to category k.s. 100 kVA - 1MVA 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	IT2227D0 001	AK 60161549 0001	Yes	Inverter may only be used in plants according to category k.s. 100 kVA - 1MVA 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	IT2227D0 001	AK 60161549 0001	Yes	Inverter may only be used in plants according to category k.s. 100 kVA - 1MVA 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	IT2227D0 001	AK 60161549 0001	Yes	Inverter may only be used in plants according to category k.s. 100 kVA - 1MVA 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	IT2227D0 001	AK 60161549 0001	Yes	Inverter may only be used in plants according to category k.s. 100 kVA - 1MVA 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	IT2227D0 001	AK 60161549 0001	Yes	Inverter may only be used in plants according to category k.s. 100 kVA - 1MVA 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 k.s. 100 kVA - 1MVA 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 k.s. 100 kVA - 1MVA and connection to the grid via an external customer MV/LV AC transformer.
Goodwe	GW3648-ES	Hybrid PV inverter grid-tied	TUV SUD	2018/11/12	704091815302-00	D 083373 0039 Rev.00	Yes	
Goodwe	GW5048-ES	Hybrid PV inverter grid-tied	TUV SUD	2018/11/12	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-190C0893FTSHP	U19-0609	Yes	
Goodwe	GW8K-DT	Grid-tied PV inverter	Bureau Veritas	2019/11/20	ZEM-190C0893FTSHP	U19-0609	Yes	
Goodwe	GW8K-DT	Grid-tied PV inverter	Bureau Veritas	2019/11/20	ZEM-190C0893FTSHP	U19-0609	Yes	
Goodwe	GW8K-DT	Grid-tied PV inverter	Bureau Veritas	2019/11/20	ZEM-190C0893FTSHP	U19-0609	Yes	
Goodwe	GW10KT-DT	Grid-tied PV inverter	Bureau Veritas	2019/11/20	ZEM-190C0893FTSHP	U19-0609	Yes	
Goodwe	GW12KT-DT	Grid-tied PV inverter	Bureau Veritas	2019/11/20	ZEM-190C0893FTSHP	U19-0609	Yes	
Goodwe	GW15KT-DT	Grid-tied PV inverter	Bureau Veritas	2019/11/20	ZEM-190C0893FTSHP	U19-0609	Yes	
Goodwe	GW500S-BP	Battery based inverter grid-tied	TUV Rheinland	2018/11/12	50180648 001	AK 50419930 0001	Yes	
Goodwe	GW360S-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	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Goodwe	GW60K-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	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	Inverter may only be used in plants connected to the grid via an external customer MV/LV AC transformer.
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 Balun	2022/06/07		TRPVP1105821E/02	COCPPV1105821E-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 Balun	2022/06/07		TRPVP1105821E/02	COCPPV1105821E-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	GW-M-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		
Growatt	SPH5000TL BL-UP	Hybrid PV inverter grid-tied	Intertek	2019/10/25		190719102GZU-001	CN-PV-190037	Yes		
Growatt	SPH6000TL BL-UP	Hybrid PV inverter grid-tied	Intertek	2019/10/25		190719102GZU-001	CN-PV-190037	Yes		
Growatt	MAX 80KTL3 LV	Grid-tied PV inverter	SGS	2020/06/04	2023/06/04	2220 - 0165 - A / E1	2620/0165-A-CER	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growatt	MAX 70KTL3 LV	Grid-tied PV inverter	SGS	2020/06/04	2023/06/04	2220 - 0165 - A / E1	2620/0165-A-CER	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growatt	MAX 60KTL3 LV	Grid-tied PV inverter	SGS	2020/06/04	2023/06/04	2220 - 0165 - A / E1	2620/0165-A-CER	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growatt	MAX 50KTL3 LV	Grid-tied PV inverter	SGS	2020/06/04	2023/06/04	2220 - 0165 - A / E1	2620/0165-A-CER	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GHYper-3000	Hybrid PV inverter grid-tied	Dekra	2021/08/20		6111798.51	6111798.02AOC	Yes		
Growcol	GHYper-3680	Hybrid PV inverter grid-tied	Dekra	2021/08/20		6111798.51	6111798.02AOC	Yes		
Growcol	GHYper-5000	Hybrid PV inverter grid-tied	Dekra	2021/08/20		6111798.51	6111798.02AOC	Yes		
Growcol	GX25KT	Grid-tied PV inverter	Intertek	2022/06/27		220120058GZU-001, Rev 1	CN-PV-220040R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX25KT-S	Grid-tied PV inverter	Intertek	2022/06/27		220120058GZU-001, Rev 1	CN-PV-220040R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX30KT	Grid-tied PV inverter	Intertek	2022/06/27		220120058GZU-001, Rev 1	CN-PV-220040R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX30KT-S	Grid-tied PV inverter	Intertek	2022/06/27		220120058GZU-001, Rev 1	CN-PV-220040R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX33KT	Grid-tied PV inverter	Intertek	2022/06/27		220120058GZU-001, Rev 1	CN-PV-220040R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX33KT-S	Grid-tied PV inverter	Intertek	2022/06/27		220120058GZU-001, Rev 1	CN-PV-220040R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX36KT	Grid-tied PV inverter	Intertek	2022/06/27		220120058GZU-001, Rev 1	CN-PV-220040R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX36KT-S	Grid-tied PV inverter	Intertek	2022/06/27		220120058GZU-001, Rev 1	CN-PV-220040R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX40KT	Grid-tied PV inverter	Intertek	2022/06/27		220120058GZU-001, Rev 1	CN-PV-220040R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX40KT-S	Grid-tied PV inverter	Intertek	2022/06/27		220120058GZU-001, Rev 1	CN-PV-220040R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX50KT	Grid-tied PV inverter	Intertek	2022/06/27		220120057GZU-001, Rev 1	CN-PV-220039R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX50KTL	Grid-tied PV inverter	Intertek	2022/06/27		220120057GZU-001, Rev 1	CN-PV-220039R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX50KTL-S	Grid-tied PV inverter	Intertek	2022/06/27		220120057GZU-001, Rev 1	CN-PV-220039R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX50KT-S	Grid-tied PV inverter	Intertek	2022/06/27		220120057GZU-001, Rev 1	CN-PV-220039R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX60KT	Grid-tied PV inverter	Intertek	2022/06/27		220120057GZU-001, Rev 1	CN-PV-220039R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX60KTL	Grid-tied PV inverter	Intertek	2022/06/27		220120057GZU-001, Rev 1	CN-PV-220039R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX60KTL-S	Grid-tied PV inverter	Intertek	2022/06/27		220120057GZU-001, Rev 1	CN-PV-220039R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX60KT-S	Grid-tied PV inverter	Intertek	2022/06/27		220120057GZU-001, Rev 1	CN-PV-220039R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX66KT	Grid-tied PV inverter	Intertek	2022/06/27		220120057GZU-001, Rev 1	CN-PV-220039R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX66KT-S	Grid-tied PV inverter	Intertek	2022/06/27		220120057GZU-001, Rev 1	CN-PV-220039R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX70KT	Grid-tied PV inverter	Intertek	2022/06/27		220120057GZU-001, Rev 1	CN-PV-220039R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX70KT-S	Grid-tied PV inverter	Intertek	2022/06/27		220120057GZU-001, Rev 1	CN-PV-220039R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX100KT	Grid-tied PV inverter	Intertek	2022/06/27		220307041GZU-001, Rev 1	CN-PV-220070R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX100KT-F	Grid-tied PV inverter	Intertek	2022/06/27		220307041GZU-001, Rev 1	CN-PV-220070R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX110KT	Grid-tied PV inverter	Intertek	2022/06/27		220307041GZU-001, Rev 1	CN-PV-220070R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX110KT-F	Grid-tied PV inverter	Intertek	2022/06/27		220307041GZU-001, Rev 1	CN-PV-220070R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX136KT-L	Grid-tied PV inverter	Intertek	2022/06/27		220307041GZU-001, Rev 1	CN-PV-220070R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX136KT-LF	Grid-tied PV inverter	Intertek	2022/06/27		220307041GZU-001, Rev 1	CN-PV-220070R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GX136KT-XF	Grid-tied PV inverter	Intertek	2022/06/27		220307041GZU-001, Rev 1	CN-PV-220070R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Growcol	GW-MPS030	Hybrid PV inverter grid-tied	TUV NORD (Hangzhou)	2022/05/24		TRPVP0400422ZE01	COCPPV040022ZE-01	Yes		
Growcol	GW-MPS050	Hybrid PV inverter grid-tied	TUV NORD (Hangzhou)	2022/05/24		TRPVP0400422ZE01	COCPPV040022ZE-01	Yes		
Growcol	GW-MPS0100	Hybrid PV inverter grid-tied	TUV NORD (Hangzhou)	2022/05/24		TRPVP0400422ZE01	COCPPV040022ZE-01	Yes		
Growcol	GW-MPS0150	Hybrid PV inverter grid-tied	TUV NORD (Hangzhou)	2022/05/24		TRPVP0400422ZE01	COCPPV040022ZE-01	Yes		
Growcol	GW8KS1	Hybrid PV inverter grid-tied	TUV SUD	2022/10/14		64.290.22.31173.01	D 118596 0001 Rev.00	Yes		
Growcol	GW-MPS0250	Hybrid PV inverter grid-tied	TUV Rheinland	2023/02/23		CN229F6J 003	AK 50573567 0001	Yes		
Growcol	GW-MPS0500	Hybrid PV inverter grid-tied	TUV Rheinland	2023/02/23		CN229F6J 003	AK 50573567 0001	Yes		
Hoymiles	MI-500	Grid-tied PV inverter	Bureau Veritas	2018/07/10		BMH-18JA0680FCSP-R1	U18-0374	Yes		Hoymiles MI-500, 600 and 700 micro inverters are not equipped with an internal disconnection device and an external City listed network and system grid protection voltage and frequency relay must be provided in the photovoltaic system with appropriately sized two in series contactors according to NBS 997-2-1 requirements and default settings.
Hoymiles	MI-600	Grid-tied PV inverter	Bureau Veritas	2018/07/10		BMH-18JA0680FCSP-R1	U18-0374	Yes		
Hoymiles	MI-700	Grid-tied PV inverter	Bureau Veritas	2018/07/10		BMH-18JA0680FCSP-R1	U18-0374	Yes		
Hoymiles	MI-1000	Grid-tied PV inverter	Bureau Veritas	2018/07/27		ZEM-18AP0889FCSPH	U18-0435	Yes		
Hoymiles	MI-1000T	Grid-tied PV inverter	Bureau Veritas	2018/07/27		ZEM-18AP0889FCSPH	U18-0435	Yes		
Hoymiles	MI-1200	Grid-tied PV inverter	Bureau Veritas	2018/07/27		ZEM-18AP0889FCSPH	U18-0435	Yes		
Hoymiles	MI-1200T	Grid-tied PV inverter	Bureau Veritas	2018/07/27		ZEM-18AP0889FCSPH	U18-0435	Yes		
Hoymiles	HM-500	Grid-tied PV inverter	TUV NORD & Donguan Balun	2021/11/19		TRPVP0307821B/02	COCPPV0307821B-02	Yes		

Huawei	SUN2000-100KTL-M2	Gnd-tied PV inverter	Dekra	2023/01/16	2028/01/16	6138697.50	6138697.01COG		Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Huawei	SUN2000-115KTL-M2	Gnd-tied PV inverter	Dekra	2023/01/16	2028/01/16	6138697.50	6138697.01COG		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	Ingecon Sun Storage 1Play 3TL M 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	Ingecon Sun Storage 1Play 6TL M Basic	Hybrid PV inverter grid-tied	SGS	2022/02/28	2026/05/11	2220/0119-E-E1	2620/0119-E-E1-CER		Yes	
INVT	BD3KTL-RL1-1	Hybrid PV inverter grid-tied	TUV SUD	2023/03/01		64.290.22.31834.01	D 072237 0134 Rev.00		Yes	
INVT	BD3K6TL-RL1-1	Hybrid PV inverter grid-tied	TUV SUD	2023/03/01		64.290.22.31834.01	D 072237 0134 Rev.00		Yes	
INVT	BD4KTL-RL1-1	Hybrid PV inverter grid-tied	TUV SUD	2023/03/01		64.290.22.31834.01	D 072237 0134 Rev.00		Yes	
INVT	BD4K6TL-RL1-1	Hybrid PV inverter grid-tied	TUV SUD	2023/03/01		64.290.22.31834.01	D 072237 0134 Rev.00		Yes	
INVT	BD5KTL-RL1-1	Hybrid PV inverter grid-tied	TUV SUD	2023/03/01		64.290.22.31834.01	D 072237 0134 Rev.00		Yes	
INVT	BD6KTL-RL1-1	Hybrid PV inverter grid-tied	TUV SUD	2023/03/01		64.290.22.31834.01	D 072237 0134 Rev.00		Yes	
INVT	BD8KTL-RL1-1	Hybrid PV inverter grid-tied	TUV SUD	2023/03/01		64.290.22.31835.01	D 072237 0135 Rev.00		Yes	
Jinko	JKH30LTA	Hybrid PV inverter grid-tied	TUV NORD (Hangzhou)	2023/03/08		TRPVP01087/23E.01	COCPVP01087/23E-01		Yes	
Jinko	JKH50LTA	Hybrid PV inverter grid-tied	TUV NORD (Hangzhou)	2023/03/08		TRPVP01087/23E.01	COCPVP01087/23E-01		Yes	
Jinko	JKH100LTA	Hybrid PV inverter grid-tied	TUV NORD (Hangzhou)	2023/03/08		TRPVP01087/23E.01	COCPVP01087/23E-01		Yes	
Jinko	JKH150LTA	Hybrid PV inverter grid-tied	TUV NORD (Hangzhou)	2023/03/08		TRPVP01087/23E.01	COCPVP01087/23E-01		Yes	
Jinko	JKH250LTA	Hybrid PV inverter grid-tied	TUV Rheinland	2023/02/21		CN229F6J 002	AK 5057 4863 0001		Yes	
Jinko	JKH500LTA	Hybrid PV inverter grid-tied	TUV Rheinland	2023/02/21		CN229F6J 002	AK 5057 4863 0001		Yes	
Jinko	JKS-3HLVS-HI	Hybrid PV inverter grid-tied	TUV SUD	2023/04/14		64.290.23.30521.01	D 118443 0019 Rev.00		Yes	
Jinko	JKS-3.6HLVS-HI	Hybrid PV inverter grid-tied	TUV SUD	2023/04/14		64.290.23.30521.01	D 118443 0019 Rev.00		Yes	
Jinko	JKS-4HLVS-HI	Hybrid PV inverter grid-tied	TUV SUD	2023/04/14		64.290.23.30521.01	D 118443 0019 Rev.00		Yes	
Jinko	JKS-4.6HLVS-HI	Hybrid PV inverter grid-tied	TUV SUD	2023/04/14		64.290.23.30521.01	D 118443 0019 Rev.00		Yes	
Jinko	JKS-5HLVS-HI	Hybrid PV inverter grid-tied	TUV SUD	2023/04/14		64.290.23.30521.01	D 118443 0019 Rev.00		Yes	
Jinko	JKS-6HLVS-HI	Hybrid PV inverter grid-tied	TUV SUD	2023/04/14		64.290.23.30521.01	D 118443 0019 Rev.00		Yes	
Kehua	BCS50K-A	Battery based inverter grid-tied	TUV SUD	2022/09/22		64.290.22.30151.01	D 115067 0036 Rev.00		Yes	The energy storage inverter is not equipped with integrated network and system (NS) protection. External to the converter NS protection required with a City listed NS grid protection voltage and frequency relay and appropriately sized two in series contactors according to NRS 097-2-1 requirements and default settings.
Kehua	BCS100K-A	Battery based inverter grid-tied	TUV SUD	2022/09/22		64.290.22.30151.01	D 115067 0036 Rev.00		Yes	The energy storage inverter is not equipped with integrated network and system (NS) protection. External to the converter NS protection required with a City listed NS grid protection voltage and frequency relay and appropriately sized two in series contactors according to NRS 097-2-1 requirements and default settings.
Kehua	BCS250K-A	Battery based inverter grid-tied	TUV SUD	2022/09/22		64.290.22.30151.01	D 115067 0036 Rev.00		Yes	The energy storage inverter is not equipped with integrated network and system (NS) protection. External to the converter NS protection required with a City listed NS grid protection voltage and frequency relay and appropriately sized two in series contactors according to NRS 097-2-1 requirements and default settings.
Kehua	BCS500K-A	Battery based inverter grid-tied	TUV SUD	2022/09/22		64.290.22.30151.01	D 115067 0036 Rev.00		Yes	The energy storage inverter is not equipped with integrated network and system (NS) protection. External to the converter NS protection required with a City listed NS grid protection voltage and frequency relay and appropriately sized two in series contactors according to NRS 097-2-1 requirements and default settings.
Kodak	Kodak I3.0	Gnd-tied PV inverter	Dekra	2019/12/10		6065813.50	6065813.01AOC		Yes	
Kodak	Kodak I3.6	Gnd-tied PV inverter	Dekra	2019/12/10		6065813.50	6065813.01AOC		Yes	
Kodak	Kodak I4.6	Gnd-tied PV inverter	Dekra	2019/12/10		6065813.50	6065813.01AOC		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	
Koyoe	KY-1Hybrid-5K0-H	Hybrid PV inverter grid-tied	Intertek	2021/01/22		201102063GZU-001	CN-PV-210016		Yes	
Koyoe	KY-1Hybrid-5K0-H-A	Hybrid PV inverter grid-tied	Intertek	2021/06/21		210525156GZU-001	CN-PV-210154		Yes	
Koyoe	KY-EST06KH-A	Hybrid PV inverter grid-tied	TUV NORD	2021/12/30		TRPVP04039/21E.09	COCPVP04039/21E-02		Yes	
Koyoe	KY-EST08KH-A	Hybrid PV inverter grid-tied	TUV NORD	2021/12/30		TRPVP04039/21E.09	COCPVP04039/21E-02		Yes	
Koyoe	KY-EST10KH-A	Hybrid PV inverter grid-tied	TUV NORD	2021/12/30		TRPVP04039/21E.09	COCPVP04039/21E-02		Yes	
Koyoe	KY-EST12KH-A	Hybrid PV inverter grid-tied	TUV NORD	2021/12/30		TRPVP04039/21E.09	COCPVP04039/21E-02		Yes	
Koyoe	KY-EST15KH-A	Hybrid PV inverter grid-tied	TUV NORD	2021/12/30		TRPVP04039/21E.09	COCPVP04039/21E-02		Yes	
Koyoe	KY-EST17KH-A	Hybrid PV inverter grid-tied	TUV NORD	2021/12/30		TRPVP04039/21E.09	COCPVP04039/21E-02		Yes	
Koyoe	KY-EST20KH-A	Hybrid PV inverter grid-tied	TUV NORD	2021/12/30		TRPVP04039/21E.09	COCPVP04039/21E-02		Yes	
Koyoe	KY-EST06KH	Hybrid PV inverter grid-tied	TUV NORD	2021/10/15		TRPVP04039/21E.04	COCPVP04039/21E-01		Yes	
Koyoe	KY-EST08KH	Hybrid PV inverter grid-tied	TUV NORD	2021/10/15		TRPVP04039/21E.04	COCPVP04039/21E-01		Yes	
Koyoe	KY-EST10KH	Hybrid PV inverter grid-tied	TUV NORD	2021/10/15		TRPVP04039/21E.04	COCPVP04039/21E-01		Yes	
Koyoe	KY-EST12KH	Hybrid PV inverter grid-tied	TUV NORD	2021/10/15		TRPVP04039/21E.04	COCPVP04039/21E-01		Yes	
Koyoe	KY-EST15KH	Hybrid PV inverter grid-tied	TUV NORD	2021/10/15		TRPVP04039/21E.04	COCPVP04039/21E-01		Yes	
Koyoe	KY-EST17KH	Hybrid PV inverter grid-tied	TUV NORD	2021/10/15		TRPVP04039/21E.04	COCPVP04039/21E-01		Yes	
Koyoe	KY-EST20KH	Hybrid PV inverter grid-tied	TUV NORD	2021/10/15		TRPVP04039/21E.04	COCPVP04039/21E-01		Yes	
KSTAR	Blue-S 3600D	Hybrid PV inverter grid-tied	TUV SUD	2021/09/23		64.290.20.30989.03	D 075386 0136 Rev.02		Yes	
KSTAR	Blue-S 5000D	Hybrid PV inverter grid-tied	TUV SUD	2021/09/23		64.290.20.30989.03	D 075386 0136 Rev.02		Yes	
KSTAR	Blue-S 3600D-M1	Hybrid PV inverter grid-tied	TUV SUD	2021/09/23		64.290.20.30989.03	D 075386 0136 Rev.02		Yes	
KSTAR	Blue-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	Blue-G 3000S	Gnd-tied PV inverter	TUV SUD	2021/09/23		64.290.21.30004.03	D 075386 0137 Rev.02		Yes	
KSTAR	Blue-G 3000S-M1	Gnd-tied PV inverter	TUV SUD	2021/09/23		64.290.21.30004.03	D 075386 0137 Rev.02		Yes	
KSTAR	Blue-G 3000D	Gnd-tied PV inverter	TUV SUD	2021/09/23		64.290.21.30004.03	D 075386 0137 Rev.02		Yes	
KSTAR	Blue-G 3000D-M0	Gnd-tied PV inverter	TUV SUD	2021/09/23		64.290.21.30004.03	D 075386 0137 Rev.02		Yes	
KSTAR	Blue-G 3000D-M1	Gnd-tied PV inverter	TUV SUD	2021/09/23		64.290.21.30004.03	D 075386 0137 Rev.02		Yes	
KSTAR	Blue-G 3600D	Gnd-tied PV inverter	TUV SUD	2021/09/23		64.290.21.30004.03	D 075386 0137 Rev.02		Yes	
KSTAR	Blue-G 3600D-M0	Gnd-tied PV inverter	TUV SUD	2021/09/23		64.290.21.30004.03	D 075386 0137 Rev.02		Yes	
KSTAR	Blue-G 3600D-M1	Gnd-tied PV inverter	TUV SUD	2021/09/23		64.290.21.30004.03	D 075386 0137 Rev.02		Yes	
KSTAR	Blue-G 4000D	Gnd-tied PV inverter	TUV SUD	2021/09/23		64.290.21.30004.03	D 075386 0137 Rev.02		Yes	
KSTAR	Blue-G 4000D-M0	Gnd-tied PV inverter	TUV SUD	2021/09/23		64.290.21.30004.03	D 075386 0137 Rev.02		Yes	
KSTAR	Blue-G 4000D-M1	Gnd-tied PV inverter	TUV SUD	2021/09/23		64.290.21.30004.03	D 075386 0137 Rev.02		Yes	
KSTAR	Blue-G 4200D	Gnd-tied PV inverter	TUV SUD	2021/09/23		64.290.21.30004.03	D 075386 0137 Rev.02		Yes	
KSTAR	Blue-G 4200D-M0	Gnd-tied PV inverter	TUV SUD	2021/09/23		64.290.21.30004.03	D 075386 0137 Rev.02		Yes	
KSTAR	Blue-G 4200D-M1	Gnd-tied PV inverter	TUV SUD	2021/09/23		64.290.21.30004.03	D 075386 0137 Rev.02		Yes	
KSTAR	Blue-G 4600D	Gnd-tied PV inverter	TUV SUD	2021/09/23		64.290.21.30004.03	D 075386 0137 Rev.02		Yes	
KSTAR	Blue-G 4600D-M1	Gnd-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	
Livoltek	Hyper-2000	Hybrid PV inverter grid-tied	Dekra	2019/07/05		6055811.50	6055811.01AOC		Yes	
Livoltek	Hyper-3000	Hybrid PV inverter grid-tied	Dekra	2019/07/05		6055811.50	6055811.01AOC		Yes	

SMA	SB3.6-1AV-41	Grid-tied PV inverter	Bureau Veritas	2023/01/20	16TH0348-NRS 097-2-1 1	U23-0041	Yes	
SMA	SB4.0-1AV-41	Grid-tied PV inverter	Bureau Veritas	2023/01/20	16TH0348-NRS 097-2-1 1	U23-0041	Yes	
SMA	SB5.0-1AV-41	Grid-tied PV inverter	Bureau Veritas	2023/01/20	16TH0348-NRS 097-2-1 1	U23-0041	Yes	
SMA	SB6.0-1AV-41	Grid-tied PV inverter	Bureau Veritas	2023/01/20	16TH0348-NRS 097-2-1 1	U23-0041	Yes	
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	STP6.0-3AV-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	STP6.0-3SE-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	
SMA	STP12-50	Grid-tied PV inverter	TUV SUD	2023/04/03	713254379-006	ESY 070122 0044 Rev.00	Yes	
SMA	STP15-50	Grid-tied PV inverter	TUV SUD	2023/04/03	713254379-006	ESY 070122 0044 Rev.00	Yes	
SMA	STP20-50	Grid-tied PV inverter	TUV SUD	2023/04/03	713254379-006	ESY 070122 0044 Rev.00	Yes	
SMA	STP25-50	Grid-tied PV inverter	TUV SUD	2023/04/03	713254379-006	ESY 070122 0044 Rev.00	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	6000TL	Grid-tied PV inverter	Intertek	2019/12/19	191025090GZU-001	CN-PV-190090	Yes	
Solar Solar	5000TL	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	3KTLM-G3	Grid-tied PV inverter	Intertek	2021/08/09	210715145GZU-002	CN-PV-210185	Yes	
Solar Solar	3.6KTLM-G3	Grid-tied PV inverter	Intertek	2021/08/09	210715145GZU-002	CN-PV-210185	Yes	
Solar Solar	4KTLM-G3	Grid-tied PV inverter	Intertek	2021/08/09	210715145GZU-002	CN-PV-210185	Yes	
Solar Solar	4.6KTLM-G3	Grid-tied PV inverter	Intertek	2021/08/09	210715145GZU-002	CN-PV-210185	Yes	
Solar Solar	5KTLM-G3	Grid-tied PV inverter	Intertek	2021/08/09	210715145GZU-002	CN-PV-210185	Yes	
Solar Solar	6KTLM-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 MV/LV 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 MV/LV 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 MV/LV 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	Models with AC output voltage 277 Vac L-N / 480 Vac L-L, is intended for grid connection with an external customer MV/LV 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 MV/LV 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 MV/LV 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	
SolarEdge	SE4K	Grid-tied PV inverter	TUV SUD	2021/09/03	713224660 000	D 082496 0022 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	TUV NORD (Hangzhou)	2022/03/03		TRPVP12002/21B/01	COCPVP12002/21B-01		Yes	
TBB Power	Apollo Matrix 3.0M	Hybrid PV inverter grid-tied	TUV NORD (Hangzhou)	2022/03/03		TRPVP12002/21B/01	COCPVP12002/21B-01		Yes	
TBB Power	Apollo Matrix 5.0S	Hybrid PV inverter grid-tied	TUV NORD (Hangzhou)	2022/03/03		TRPVP12002/21B/01	COCPVP12002/21B-01		Yes	
TELE Haase Steuergerate	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-xxx-y	Battery based inverter grid-tied	Intertek	2020/05/20		102591059CRT-051c	102591059CRT-051c	Yes		
Tesla	AC Powerwall 2012/170-xxx-y	Battery based inverter grid-tied	Intertek	2020/05/20		102591059CRT-051c	102591059CRT-051c	Yes		
Victron	MultiGrid 12/3000/120-50	Battery based inverter grid-tied	Primara	2017/11/20		16PP183-06 1	17-303-00	Yes		
Victron	MultiGrid 24/3000/70-50	Battery based inverter grid-tied	Primara	2017/11/20		16PP183-06 1	17-303-00	Yes		
Victron	MultiGrid 48/3000/35-50	Battery based inverter grid-tied	Primara	2017/11/20		16PP183-06 1	17-303-00	Yes		
Victron	MultiGrid - II 48/3000/35-32	Battery based inverter grid-tied	Primara	2018/10/02		17PP264-07 1	18-320-00	Yes		
Victron	MultiPlus - II 48/3000/35-32	Battery based inverter grid-tied	Kiwa Primara	2019/08/22		17PP264-07 3	18-320-01	Yes		
Victron	MultiPlus - II 48/3000/35-32GX	Battery based inverter grid-tied	Kiwa Primara	2019/08/22		17PP264-07 3	18-320-01	Yes		
Victron	MultiPlus - II 48/5000/70-50	Battery based 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 of 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 Ito NRS 097-2-1>

2023-05-08