

ENERGY AND CLIMATE CHANGE DIRECTORATE

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

19 F r r 2021

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		
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	TÜV 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		
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		
Atess	HPS 30	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	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 Technology	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 Technology	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 Technology	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 Technology	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	SMILE5-INV	Battery based inverter grid-tied	Bureau Veritas	2019/03/22		ABYD-19JA1440FCSHP	U19-0178	Yes		
Alpha	Storion-SMILE-B3	Battery based inverter grid-tied	Bureau Veritas	2020/08/19		ABYD-ESH-P2007 1636	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		
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 80 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.
Deye	SUN-8K-SG01LP1-EU	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/03/04		BL-DG19C0016-B01	BL-DG19C0016D02	Yes		
Deye	SUN-7.6K-SG01LP1-EU	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/03/04		BL-DG19C0016-B01	BL-DG19C0016D02	Yes		
Deye	SUN-6K-SG01LP1-EU	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/03/04		BL-DG19C0016-B01	BL-DG19C0016D02	Yes		
Deye	SUN-5K-SG01LP1-EU	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/03/04		BL-DG19C0016-B01	BL-DG19C0016D02	Yes		
Deye	SUN-3.6K-SG01LP1-EU	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/03/04		BL-DG19C0016-B01	BL-DG19C0016D02	Yes		
Deye	SUN-8K-SG01LP1-EU-B	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/03/04		BL-DG19C0016-B01	BL-DG19C0016D02	Yes		

Deye	SUN-7.6K-SG01LP1-EU-B	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/03/04		BL-DG19C0016-B01	BL-DG19C0016D02	Yes	
Deye	SUN-6K-SG01LP1-EU-B	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/03/04		BL-DG19C0016-B01	BL-DG19C0016D02	Yes	
Deye	SUN-5K-SG01LP1-EU-B	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/03/04		BL-DG19C0016-B01	BL-DG19C0016D02	Yes	
Deye	SUN-3.6K-SG01LP1-EU-B	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/03/04		BL-DG19C0016-B01	BL-DG19C0016D02	Yes	
Eaton	XSTH1P036PO48V01	Hybrid PV inverter grid-tied	Bureau Veritas	2019/12/10		PVZA190716C26 163818-743394	U19-0642	Yes	
Eaton	XSTH1P046PO48V01	Hybrid PV inverter grid-tied	Bureau Veritas	2019/12/10		PVZA190716C26 163818-743394	U19-0642	Yes	
Eaton	XSTH1P060PO48V01	Hybrid PV inverter grid-tied	Bureau Veritas	2019/12/10		PVZA190716C26 163818-743394	U19-0642	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	
Goodwe	GW3648D-ES	Hybrid PV inverter grid-tied	TUV SÜD	2018/11/12		704091815302-00	D 083373 0039 Rev.00	Yes	
Goodwe	GW5048D-ES	Hybrid PV inverter grid-tied	TUV SÜD	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-19OC0893FTSHP	U19-0609	Yes	
Goodwe	GW5K-DT	Grid-tied PV inverter	Bureau Veritas	2019/11/20		ZEM-19OC0893FTSHP	U19-0609	Yes	
Goodwe	GW6K-DT	Grid-tied PV inverter	Bureau Veritas	2019/11/20		ZEM-19OC0893FTSHP	U19-0609	Yes	
Goodwe	GW8K-DT	Grid-tied PV inverter	Bureau Veritas	2019/11/20		ZEM-19OC0893FTSHP	U19-0609	Yes	
Goodwe	GW10KT-DT	Grid-tied PV inverter	Bureau Veritas	2019/11/20		ZEM-19OC0893FTSHP	U19-0609	Yes	
Goodwe	GW12KT-DT	Grid-tied PV inverter	Bureau Veritas	2019/11/20		ZEM-19OC0893FTSHP	U19-0609	Yes	
Goodwe	GW15KT-DT	Grid-tied PV inverter	Bureau Veritas	2019/11/20		ZEM-19OC0893FTSHP	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	2019/09/05		PVZA180903N057-R1	1888AP0903N057003	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	2019/09/05		PVZA180903N057-R1	1888AP0903N057003	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-19OC2322FTSHS	U20-C270	Yes	
Goodwe	GW 17KN-DT	Grid-tied PV inverter	Bureau Veritas	2020/04/17		ASBJ-19OC2322FTSHS	U20-C270	Yes	
Goodwe	GW 15KN-DT	Grid-tied PV inverter	Bureau Veritas	2020/04/17		ASBJ-19OC2322FTSHS	U20-C270	Yes	
Goodwe	GW 12KN-DT	Grid-tied PV inverter	Bureau Veritas	2020/04/17		ASBJ-19OC2322FTSHS	U20-C270	Yes	
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.
Hoymiles	MI-500	Grid-tied PV inverter	Bureau Veritas	2018/07/10		BMH-18JA0680FCSP-R1	U18-0374	Yes	
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-18AP0889FCSP	U18-0435	Yes	
Hoymiles	MI-1000T	Grid-tied PV inverter	Bureau Veritas	2018/07/27		ZEM-18AP0889FCSP	U18-0435	Yes	
Hoymiles	MI-1200	Grid-tied PV inverter	Bureau Veritas	2018/07/27		ZEM-18AP0889FCSP	U18-0435	Yes	
Hoymiles	MI-1200T	Grid-tied PV inverter	Bureau Veritas	2018/07/27		ZEM-18AP0889FCSP	U18-0435	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		PVZA180718N004	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.
Ingeteam	Ingecon SUN 3 PLAY 20TL M	Grid-tied PV inverter	SGS	2019/02/07	2022/02/07	2219/0002-B/E1	2619/0002/B-CER	Yes	
Ingeteam	Ingecon SUN 3 PLAY 28TL M	Grid-tied PV inverter	SGS	2019/02/07	2022/02/07	2219/0002-B/E1	2619/0002/B-CER	Yes	
Ingeteam	Ingecon SUN 3 PLAY 33TL M	Grid-tied PV inverter	SGS	2019/02/07	2022/02/07	2219/0002-B/E1	2619/0002/B-CER	Yes	

Ingeteam	Ingecon SUN 3 PLAY 20TL	Grid-tied PV inverter	SGS	2019/02/07	2022/02/07	2219/0002-B/E1	2619/0002-B-CER	Yes		
Ingeteam	Ingecon SUN 3 PLAY 33TL	Grid-tied PV inverter	SGS	2019/02/07	2022/02/07	2219/0002-B/E1	2619/0002-B-CER	Yes		
Ingeteam	Ingecon SUN 1 PLAY 2.5TL M	Grid-tied PV inverter	SGS	2018/12/21	2021/12/21	2218/1010-2/E1	2618/1010/2-CER	Yes		
Ingeteam	Ingecon SUN 1 PLAY 2.7TL M	Grid-tied PV inverter	SGS	2018/12/21	2021/12/21	2218/1010-2/E1	2618/1010/2-CER	Yes		
Ingeteam	Ingecon SUN 1 PLAY 3TL M	Grid-tied PV inverter	SGS	2018/12/21	2021/12/21	2218/1010-2/E1	2618/1010/2-CER	Yes		
Ingeteam	Ingecon SUN 1 PLAY 3.3TL M	Grid-tied PV inverter	SGS	2018/12/21	2021/12/21	2218/1010-2/E1	2618/1010/2-CER	Yes		
Ingeteam	Ingecon SUN 1 PLAY 3.68TL M	Grid-tied PV inverter	SGS	2018/12/21	2021/12/21	2218/1010-2/E1	2618/1010/2-CER	Yes		
Ingeteam	Ingecon SUN 1 PLAY 4.6TL M	Grid-tied PV inverter	SGS	2018/12/21	2021/12/21	2218/1010-2/E1	2618/1010/2-CER	Yes		
Ingeteam	Ingecon SUN 1 PLAY 5TL M	Grid-tied PV inverter	SGS	2018/12/21	2021/12/21	2218/1010-2/E1	2618/1010/2-CER	Yes		
Ingeteam	Ingecon SUN 1 PLAY 5.5TL M	Grid-tied PV inverter	SGS	2018/12/21	2021/12/21	2218/1010-2/E1	2618/1010/2-CER	Yes		
Ingeteam	Ingecon SUN 1 PLAY 6TL M	Grid-tied PV inverter	SGS	2018/12/21	2021/12/21	2218/1010-2/E1	2618/1010/2-CER	Yes		
Ingeteam	Ingecon SUN 100 TL	Grid-tied PV inverter	Cere	2019/03/01	2021/12/05	11505-24-3-TR-E1	11505-24-3-CER-E1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used. Inverter may only be used in plants according to Category A3: 100 kVA - 1MVA and for grid connection with an external customer MV/LV AC transformer.
Kodak	Kodak I3.0	Grid-tied PV inverter	Dekra	2019/12/10		6065813.50	6065813.01AOC	Yes		
Kodak	Kodak I3.6	Grid-tied PV inverter	Dekra	2019/12/10		6065813.50	6065813.01AOC	Yes		
Kodak	Kodak I4.6	Grid-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		
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		
Livoltek	Hyper-3680	Hybrid PV inverter grid-tied	Dekra	2019/07/05		6055811.50	6055811.01AOC	Yes		
Livoltek	Hyper-4600	Hybrid PV inverter grid-tied	Dekra	2019/07/05		6055811.50	6055811.01AOC	Yes		
Livoltek	Hyper-5000	Hybrid PV inverter grid-tied	Dekra	2019/07/05		6055811.50	6055811.01AOC	Yes		
Livoltek	Retro-2000	Battery based inverter grid-tied	Dekra	2019/07/05		6055811.50	6055811.01AOC	Yes		
Livoltek	Retro-3000	Battery based inverter grid-tied	Dekra	2019/07/05		6055811.50	6055811.01AOC	Yes		
Livoltek	Retro-3680	Battery based inverter grid-tied	Dekra	2019/07/05		6055811.50	6055811.01AOC	Yes		
Livoltek	Retro-4600	Battery based inverter grid-tied	Dekra	2019/07/05		6055811.50	6055811.01AOC	Yes		
Livoltek	Retro-5000	Battery based inverter grid-tied	Dekra	2019/07/05		6055811.50	6055811.01AOC	Yes		
Lovato	PMVF 80	Network & system relay	TÜV SÜD	2020/10/28		TR-486879-82695-04 (Ed 01)	D 094111 Rev. 00	No	No	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.
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		
Mecer	Mecer Sol-HS-10M	Hybrid PV inverter grid-tied	Bureau Veritas	2020/10/30		PVZA180904N057-R1	2088AP0923N001002	Yes		
Ohm	OHM-8K-W	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/02/26		BL-SZ1910095-B02	BL-SZ1910095-D02	Yes		
Ohm	OHM-7.6K-W	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/02/26		BL-SZ1910095-B02	BL-SZ1910095-D02	Yes		
Ohm	OHM-6K-W	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/02/26		BL-SZ1910095-B02	BL-SZ1910095-D02	Yes		
Ohm	OHM-5K-W	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/02/26		BL-SZ1910095-B02	BL-SZ1910095-D02	Yes		
Ohm	OHM-3.6K-W	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/02/26		BL-SZ1910095-B02	BL-SZ1910095-D02	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		
Schneider	Conext CL-60E	Grid-tied PV inverter	TUV SÜD	2018/02/09		701261703501-01	D 18 01 98208 006	Yes		
Schneider	XW+8548E	Battery based inverter grid-tied	TUV Rheinland	2020/08/11		50328684 002	AK 50477341 0001	Yes		
Sermatec	SMT-5K-TL-LV	Hybrid PV inverter grid-tied	TUV SÜD	2019/06/25		64.290.19.01426.01	D 102650 0007	Yes		
Sermatec	SMT-10K-TL-TH	Hybrid PV inverter grid-tied	TUV SÜD	2019/07/25		64.290.18.04743.01	D 102650 0009	Yes		
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		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	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 MV/LV 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 MV/LV 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	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	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	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	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	TÜV SÜD	2021/01/21		704092001861-00	D 0701220019 Rev. 00	Yes	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Sofar Solar	HYD 6000-ES	Hybrid PV inverter grid-tied	Intertek	2019/07/16		190603089GZU-001	190603089GZU-001	Yes		
Sofar Solar	HYD 5000-ES	Hybrid PV inverter grid-tied	Intertek	2019/07/16		190603089GZU-001	190603089GZU-001	Yes		
Sofar Solar	HYD 4000-ES	Hybrid PV inverter grid-tied	Intertek	2019/07/16		190603089GZU-001	190603089GZU-001	Yes		
Sofar Solar	HYD 3600-ES	Hybrid PV inverter grid-tied	Intertek	2019/07/16		190603089GZU-001	190603089GZU-001	Yes		
Sofar Solar	HYD 3000-ES	Hybrid PV inverter grid-tied	Intertek	2019/07/16		190603089GZU-001	190603089GZU-001	Yes		
Sofar Solar	60000TL	Grid-tied PV inverter	Intertek	2019/12/19		191025090GZU-001	CN-PV-190090	Yes		
Sofar Solar	50000TL	Grid-tied PV inverter	Intertek	2019/12/19		191025090GZU-001	CN-PV-190090	Yes		
Sofar Solar	HYD 5KTL-3PH	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/07/10		BL-DG2060517-B01	BL-DG2060517D01	Yes		
Sofar Solar	HYD 6KTL-3PH	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/07/10		BL-DG2060517-B01	BL-DG2060517D01	Yes		

SolaX Power	X3-Hybrid-10.0-D-C	Hybrid PV inverter grid-tied	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	Yes		Not intended for the use in plants > 100kVA
SolaX Power	X3-Hybrid-10.0-N-C	Hybrid PV inverter grid-tied	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	Yes		Not intended for the use in plants > 100kVA
SolaX Power	X3-Hybrid-10.0-D-E	Hybrid PV inverter grid-tied	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	Yes		Not intended for the use in plants > 100kVA
SolaX Power	X3-Hybrid-10.0-N-E	Hybrid PV inverter grid-tied	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	Yes		Not intended for the use in plants > 100kVA
SolaX Power	X3-FI1-8.0C	Grid-tied inverter	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	Yes		Not intended for the use in plants > 100kVA
SolaX Power	X3-FI1-8.0E	Grid-tied inverter	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	Yes		Not intended for the use in plants > 100kVA
SolaX Power	X3-FI1-10.0C	Grid-tied inverter	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	Yes		Not intended for the use in plants > 100kVA
SolaX Power	X3-FI1-10.0E	Grid-tied inverter	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	Yes		Not intended for the use in plants > 100kVA
Solis	Solis-mini-700-4G	Grid-tied PV inverter	Dekra	2017/11/17		6018912.51	6018912.02AOC	Yes		
Solis	Solis-mini-1000-4G	Grid-tied PV inverter	Dekra	2017/11/17		6018912.51	6018912.02AOC	Yes		
Solis	Solis-mini-1500-4G	Grid-tied PV inverter	Dekra	2017/11/17		6018912.51	6018912.02AOC	Yes		
Solis	Solis-mini-2000-4G	Grid-tied PV inverter	Dekra	2017/11/17		6018912.51	6018912.02AOC	Yes		
Solis	Solis-mini-2500-4G	Grid-tied PV inverter	Dekra	2017/11/17		6018912.51	6018912.02AOC	Yes		
Solis	Solis-mini-3000-4G	Grid-tied PV inverter	Dekra	2017/11/17		6018912.51	6018912.02AOC	Yes		
Solis	Solis-mini-3600-4G	Grid-tied PV inverter	Dekra	2017/11/17		6018912.51	6018912.02AOC	Yes		
Solis	Solis-1P1K-4G	Grid-tied PV inverter	Dekra	2017/11/10		6018912.50	6018912.01AOC	Yes		
Solis	Solis-1P1.5K-4G	Grid-tied PV inverter	Dekra	2017/11/10		6018912.50	6018912.01AOC	Yes		
Solis	Solis-1P2K-4G	Grid-tied PV inverter	Dekra	2017/11/10		6018912.50	6018912.01AOC	Yes		
Solis	Solis-1P2.5K-4G	Grid-tied PV inverter	Dekra	2017/11/10		6018912.50	6018912.01AOC	Yes		
Solis	Solis-1P3K-4G-ST	Grid-tied PV inverter	Dekra	2017/11/10		6018912.50	6018912.01AOC	Yes		
Solis	Solis-1P3K-4G	Grid-tied PV inverter	Dekra	2017/11/10		6018912.50	6018912.01AOC	Yes		
Solis	Solis-1P3.6K-4G	Grid-tied PV inverter	Dekra	2017/11/10		6018912.50	6018912.01AOC	Yes		
Solis	Solis-1P4K-4G	Grid-tied PV inverter	Dekra	2017/11/10		6018912.50	6018912.01AOC	Yes		
Solis	Solis-1P4.6K-4G	Grid-tied PV inverter	Dekra	2017/11/10		6018912.50	6018912.01AOC	Yes		
Solis	Solis-20K	Grid-tied PV inverter	TÜV SÜD	2018/03/19		50128276 001	AK 50402840 0001	Yes		
Solis	Solis-25K	Grid-tied PV inverter	TÜV SÜD	2018/03/19		50128276 001	AK 50402840 0001	Yes		
Solis	Solis-30K	Grid-tied PV inverter	TÜV SÜD	2018/03/19		50128276 001	AK 50402840 0001	Yes		
Solis	Solis-40K	Grid-tied PV inverter	TÜV SÜD	2018/03/22		50131287 001	AK 50403257 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-50K	Grid-tied PV inverter	TÜV SÜD	2018/03/22		50131287 001	AK 50403257 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-3P5K-4G	Grid-tied PV inverter	TUV Rheinland	2018/08/24		50173799 001	AK 50416579 0001	Yes		
Solis	Solis-3P6K-4G	Grid-tied PV inverter	TUV Rheinland	2018/08/24		50173799 001	AK 50416579 0001	Yes		
Solis	Solis-3P8K-4G	Grid-tied PV inverter	TUV Rheinland	2018/08/24		50173799 001	AK 50416579 0001	Yes		
Solis	Solis-3P9K-4G	Grid-tied PV inverter	TUV Rheinland	2018/08/24		50173799 001	AK 50416579 0001	Yes		
Solis	Solis-3P10K-4G	Grid-tied PV inverter	TUV Rheinland	2018/08/24		50173799 001	AK 50416579 0001	Yes		
Solis	Solis-3P12K-4G	Grid-tied PV inverter	TUV Rheinland	2018/08/24		50173799 001	AK 50416579 0001	Yes		
Solis	Solis-3P15K-4G	Grid-tied PV inverter	TUV Rheinland	2018/08/24		50173799 001	AK 50416579 0001	Yes		
Solis	Solis-3P17K-4G	Grid-tied PV inverter	TUV Rheinland	2018/08/24		50173799 001	AK 50416579 0001	Yes		
Solis	Solis-3P20K-4G	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	2018/09/12		50173405 001	AK 50418189 0001	Yes		
Solis	Solis-RHI-3.6K-48ES	Hybrid PV inverter grid-tied	TUV Rheinland	2018/09/12		50173405 001	AK 50418189 0001	Yes		
Solis	Solis-RHI-4.6K-48ES	Hybrid PV inverter grid-tied	TUV Rheinland	2018/09/12		50173405 001	AK 50418189 0001	Yes		
Solis	Solis-40K-FB	Grid-tied PV inverter	TUV Rheinland	2019/05/08		50249422 001	AK 50436157 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-50K-FB	Grid-tied PV inverter	TUV Rheinland	2019/05/08		50249422 001	AK 50436157 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-60K-4G-FB	Grid-tied PV inverter	TUV Rheinland	2019/05/08		50249422 001	AK 50436157 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-25K-5G	Grid-tied PV inverter	TUV Rheinland	2020/03/11		50344275 001	AK 50459291 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-30K-5G	Grid-tied PV inverter	TUV Rheinland	2020/03/11		50344275 001	AK 50459291 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-33K-5G	Grid-tied PV inverter	TUV Rheinland	2020/03/11		50344275 001	AK 50459291 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-36K-5G	Grid-tied PV inverter	TUV Rheinland	2020/03/11		50344275 001	AK 50459291 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-40K-5G	Grid-tied PV inverter	TUV Rheinland	2020/03/11		50344275 001	AK 50459291 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-80K-5G	Grid-tied PV inverter	TUV Rheinland	2020/12/23		50376758 003	AK 50489595 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-90K-5G	Grid-tied PV inverter	TUV Rheinland	2020/12/23		50376758 003	AK 50489595 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-100K-5G	Grid-tied PV inverter	TUV Rheinland	2020/12/23		50376758 003	AK 50489595 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-110K-5G	Grid-tied PV inverter	TUV Rheinland	2020/12/23		50376758 003	AK 50489595 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-100K-5G-SA	Grid-tied PV inverter	TUV Rheinland	2020/12/23		50376758 003	AK 50489595 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Solis	Solis-110K-5G-SA	Grid-tied PV inverter	TUV Rheinland	2020/12/23		50376758 003	AK 50489595 0001	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Soltaro	SOL-10KW-3P	Hybrid PV inverter grid-tied	TUV SÜD	2019/07/26		6429018047301A	D 104877 0003	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Sungrow	SH5K-20	Hybrid PV inverter grid-tied	Dekra	2018/05/31		6025450.51	6025450.02AOC	Yes		
Sungrow	SH5K-30	Hybrid PV inverter grid-tied	Dekra	2020/03/27		6072682.50	6072682.01AOC	Yes		
Sungrow	SG36KTL-M	Grid-tied PV inverter	TUV SÜD	2018/03/26		704091708604-01	D180373342197	Yes		
Sungrow	SG60KTL	Grid-tied PV inverter	TUV SÜD	2018/02/08		704091708605-01	D180173342198	Yes		
Sungrow	SG80KTL	Grid-tied PV inverter	Dekra	2018/07/11		6035428.50	6035428.01AOC	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Sungrow	SG80KTL-20	Grid-tied PV inverter	Dekra	2018/07/11		6035428.50	6035428.01AOC	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Sungrow	SG33CX	Grid-tied PV inverter	TÜV NORD & Shenzhen Balun Technology	2020/03/19		TRSHV11090/19/01_R2	COCSHV11090/19-01_R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Sungrow	SG40CX	Grid-tied PV inverter	TÜV NORD & Shenzhen Balun Technology	2020/03/19		TRSHV11090/19/01_R2	COCSHV11090/19-01_R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Sungrow	SG50CX	Grid-tied PV inverter	TÜV NORD & Shenzhen Balun Technology	2020/03/19		TRSHV11090/19/01_R2	COCSHV11090/19-01_R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Sungrow	SG110CX	Grid-tied PV inverter	TÜV NORD & Shenzhen Balun Technology	2020/03/19		TRSHV11090/19/02_R2	COCSHV11090/19-02_R1	Yes		The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Sungrow	SH5.0RT	Hybrid PV inverter grid-tied	TÜV NORD & Shenzhen Balun Technology	2020/07/24		TRSHV11090/19/03	COCSHV11090/19-04	Yes		

Sungrow	SH6.ORT	Hybrid PV inverter grid-tied	TÜV NORD & Shenzhen Balun Technology	2020/07/24		TRSHV11090/19/03	COCSHV11090/19-04	Yes		
Sungrow	SH8.ORT	Hybrid PV inverter grid-tied	TÜV NORD & Shenzhen Balun Technology	2020/07/24		TRSHV11090/19/03	COCSHV11090/19-04	Yes		
Sungrow	SH10RT	Hybrid PV inverter grid-tied	TÜV NORD & Shenzhen Balun Technology	2020/07/24		TRSHV11090/19/03	COCSHV11090/19-04	Yes		
Sunsynk	Synsynk-8K-SG01LP1	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/02/26		BL-SZ1910095-B01	BL-SZ1910095-D01	Yes		
Sunsynk	Synsynk-7.6K-SG01LP1	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/02/26		BL-SZ1910095-B01	BL-SZ1910095-D01	Yes		
Sunsynk	Synsynk-6K-SG01LP1	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/02/26		BL-SZ1910095-B01	BL-SZ1910095-D01	Yes		
Sunsynk	Synsynk-5K-SG01LP1	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/02/26		BL-SZ1910095-B01	BL-SZ1910095-D01	Yes		
Sunsynk	Synsynk-3.6K-SG01LP1	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2020/02/26		BL-SZ1910095-B01	BL-SZ1910095-D01	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.
Testa	AC Powerwall 1092170-xx-y	Battery based inverter grid-tied	Intertek	2020/05/20		102591059CRT-051c	102591059CRT-051c	Yes		
Testa	AC Powerwall 2012170-xx-y	Battery based inverter grid-tied	Intertek	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 (published 2020-07-20).
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/esprolmeas/SitePages/Home/.aspx/reference/PT Documents/vorms/Approved inverter and equipment ito NRS 097-2-1>
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