CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

ENERGY AND CLIMATE CHANGE DIRECTORATE

TYPE TESTED INVERTERS/EQUIPMENT IN TERMS OF NRS 097-2-1 **2019 10 08**

Make	Model	Inverter / Equipment type	Test House	Certificate date	Valid until	Report number	Certificate Compliance number	NRS 097-2-1: 2010 Certification	NRS 097-2-1: 2017 Certification	Comments
ABB	UNO-3.0-TL-OUTD	Grid-tied PV inverter	TUV Rheinland	2016/05/30	2019/12/31	28109345001	AK 60111169 0001	Yes	No	
ABB	UNO-3.0-TL-OUTD-S	Grid-tied PV inverter	TUV Rheinland	2016/05/30	2019/12/31	28109345001	AK 60111169 0001	Yes	No	
ABB	UNO-2.0-TL-OUTD	Grid-tied PV inverter	TUV Rheinland	2016/05/30	2019/12/31	28109345001	AK 60111169 0001	Yes	No	
ABB	UNO-2.0-TL-OUTD-S	Grid-tied PV inverter	TUV Rheinland	2016/05/30	2019/12/31	28109345001	AK 60111169 0001	Yes	No	
ABB	PRO-33.0-TL-OUTD-400	Grid-tied PV inverter	Bureau Veritas	2014/10/10	2019/12/31	13TH0463-NRS 097-2-1	U14-0530	Yes	No	The unit must be provided with an external RCMU type B
ABB	PRO-33.0-TL-OUTD-S-400	Grid-tied PV inverter	Bureau Veritas	2014/10/10	2019/12/31	13TH0463-NRS 097-2-1	U14-0530	Yes	No	The unit must be provided with an external RCMU type B
ABB	PRO-33.0-TL-OUTD-SX-400	Grid-tied PV inverter	Bureau Veritas	2014/10/10	2019/12/31	13TH0463-NRS 097-2-1	U14-0530	Yes	No	The unit must be provided with an external RCMU type B
ABB	PVI-13.8-TL-OUTD	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-13.8-TL-OUTD-S	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-13.8-TL-OUTD-FS	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-13.8-TL-OUTD-W	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-12.5-TL-OUTD	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-12.5-TL-OUTD-S	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-12.5-TL-OUTD-FS	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-12.5-TL-OUTD-W	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-11.0-TL-OUTD	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-11.0-TL-OUTD-S	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-11.0-TL-OUTD-FS	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-11.0-TL-OUTD-W	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-10.0-TL-OUTD	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-10.0-TL-OUTD-S	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-10.0-TL-OUTD-FS	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-8.0-TL-OUTD	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-8.0-TL-OUTD-S	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-8.0-TL-OUTD-FS	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-6.0-TL-OUTD	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-6.0-TL-OUTD-S	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	PVI-6.0-TL-OUTD-FS	Grid-tied PV inverter	TUV Rheinland	2015/02/08	2019/12/31	28107377001	AK 60099744 0001	Yes	No	
ABB	TRIO-8.5-TL-OUTD-400	Grid-tied PV inverter	TUV Rheinland	2013/11/28	2019/12/31	28106226001	AK 60090280 0001	Yes	No	
ABB	TRIO-8.5-TL-OUTD-S-400	Grid-tied PV inverter	TUV Rheinland	2013/11/28	2019/12/31	28106226001	AK 60090280 0001	Yes	No	
ABB	TRIO-7.5-TL-OUTD-400	Grid-tied PV inverter	TUV Rheinland	2013/11/28	2019/12/31	28106226001	AK 60090280 0001	Yes	No	
ABB	TRIO-7.5-TL-OUTD-S-400	Grid-tied PV inverter	TUV Rheinland	2013/11/28	2019/12/31	28106226001	AK 60090280 0001	Yes	No	
ABB	TRIO-5.8-TL-OUTD-400	Grid-tied PV inverter	TUV Rheinland	2013/11/28	2019/12/31	28106226001	AK 60090280 0001	Yes	No	
ABB	TRIO-5.8-TL-OUTD-S-400	Grid-tied PV inverter	TUV Rheinland	2013/11/28	2019/12/31	28106226001	AK 60090280 0001	Yes	No	
ABB	TRIO-27.6-TL-OUTD-400	Grid-tied PV inverter	TUV Rheinland	2015/03/23	2019/12/31	28107485001	AK 60100657 0001	Yes	No	
ABB	TRIO-27.6-TL-OUTD-S2-400	Grid-tied PV inverter	TUV Rheinland	2015/03/23	2019/12/31	28107485001	AK 60100657 0001	Yes	No	
ABB	TRIO-27.6-TL-OUTD-S2X-400	Grid-tied PV inverter	TUV Rheinland	2015/03/23	2019/12/31	28107485001	AK 60100657 0001	Yes	No	
ABB	TRIO-27.6-TL-OUTD-S2F-400	Grid-tied PV inverter	TUV Rheinland	2015/03/23	2019/12/31	28107485001	AK 60100657 0001	Yes	No	
ABB	TRIO-27.6-TL-OUTD-S1J-400	Grid-tied PV inverter	TUV Rheinland	2015/03/23	2019/12/31	28107485001	AK 60100657 0001	Yes	No	
ABB	TRIO-27.6-TL-OUTD-S2J-400	Grid-tied PV inverter	TUV Rheinland	2015/03/23	2019/12/31	28107485001	AK 60100657 0001	Yes	No	
ABB	TRIO-27.6-TL-OUTD-W	Grid-tied PV inverter	TUV Rheinland	2015/03/23	2019/12/31	28107485001	AK 60100657 0001	Yes	No	
ABB	TRIO-20.0-TL-OUTD-400	Grid-tied PV inverter	TUV Rheinland	2015/03/23	2019/12/31	28107485001	AK 60100657 0001	Yes	No	
ABB	TRIO-20.0-TL-OUTD-S2-400	Grid-tied PV inverter	TUV Rheinland	2015/03/23	2019/12/31	28107485001	AK 60100657 0001	Yes	No	
ABB	TRIO-20.0-TL-OUTD-S2X-400	Grid-tied PV inverter	TUV Rheinland	2015/03/23	2019/12/31	28107485001	AK 60100657 0001	Yes	No	
ABB	TRIO-20.0-TL-OUTD-S2F-400	Grid-tied PV inverter	TUV Rheinland	2015/03/23	2019/12/31	28107485001	AK 60100657 0001	Yes	No	
ABB	TRIO-20.0-TL-OUTD-S1J-400	Grid-tied PV inverter	TUV Rheinland	2015/03/23	2019/12/31	28107485001	AK 60100657 0001	Yes	No	
ABB	TRIO-20.0-TL-OUTD-S2J-400	Grid-tied PV inverter	TUV Rheinland	2015/03/23	2019/12/31	28107485001	AK 60100657 0001	Yes	No	
ABB	TRIO-20.0-TL-OUTD-W	Grid-tied PV inverter	TUV Rheinland	2015/03/23	2019/12/31	28107485001	AK 60100657 0001	Yes	No	
ABB	TRIO-50.0-TL-OUTD	Grid-tied PV inverter	TUV Rheinland	2016/04/15	2019/12/31	28109115001	AK 60110141 0001	Yes	No	
ABB	CM-UFD.M31 relay	Network & system relay	TÜV SÜD	2014/11/06	2019/12/31	F4-44254-48401-01 (Edition 2)	D8 14 10 44254 006	No	No	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
AEI Power	803R008	Grid-tied PV inverter	Bureau Veritas	2014/06/03	2019/12/31	09TH0301-NRS 097-2-1_1	U14-0318	Yes	No	
AEI Power	803R010	Grid-tied PV inverter	Bureau Veritas	2014/06/03	2019/12/31	09TH0301-NRS 097-2-1_1	U14-0318	Yes	No	
AEI Power	808R013	Grid-tied PV inverter	Bureau Veritas	2014/06/03	2019/12/31	09TH0301-NRS 097-2-1_1	U14-0318	Yes	No	
AEI Power	808R017	Grid-tied PV inverter	Bureau Veritas	2014/06/03	2019/12/31	09TH0301-NRS 097-2-1_1	U14-0318	Yes	No	
AEI Power	808R020	Grid-tied PV inverter	Bureau Veritas	2014/06/03	2019/12/31	09TH0301-NRS 097-2-1_1	U14-0318	Yes	No	
AEI Power	867R008	Grid-tied PV inverter	Bureau Veritas	2014/10/31	2019/12/31	14TH0086-NRS 097-2-1_0	U14-0581	Yes	No	
AEI Power	867R010	Grid-tied PV inverter	Bureau Veritas	2014/10/31	2019/12/31	14TH0086-NRS 097-2-1_0	U14-0581	Yes	No	
AEI Power	867R013	Grid-tied PV inverter	Bureau Veritas	2014/10/31	2019/12/31	14TH0086-NRS 097-2-1_0	U14-0581	Yes	No	
AEI Power	867R017	Grid-tied PV inverter	Bureau Veritas	2014/10/31	2019/12/31	14TH0086-NRS 097-2-1_0	U14-0581	Yes	No	
AEI Power	867R020	Grid-tied PV inverter	Bureau Veritas	2014/10/31	2019/12/31	14TH0086-NRS 097-2-1_0	U14-0581	Yes	No	
AEI Power	840R040	Grid-tied PV inverter	Bureau Veritas	2014/12/05	2019/12/31	14TH0086-NRS 097-2-1_0	U14-0652	Yes	No	
Alpha	SMILE5-INV	Hybrid PV inverter grid-tied	Bureau Veritas	2019/03/22		ABYD-19JA1440FCSHP	U19-0178	No	Yes	
APsystems	YC 500 I	Micro grid-tied PV inverter	Bureau Veritas	2016/03/18	2019/12/31	ZEM-16FE0239FTSP-NRS 097-2-1	U16-0160	Yes	No	
APsystems	YC 1000 - 3	Micro grid-tied PV inverter	Bureau Veritas	2016/06/08	2019/12/31	ZEM-16AP0985FTSP	U16-0301	Yes	No	
Beijing Kinglong New Energy	Solartec D 15000	Grid-tied PV inverter	TUV Rheinland	2013/04/19	2019/12/31	16802129001	AK502525870001	Yes	No	RCD or RCM Type B required on supply side
Beijing Kinglong New Energy	Solartec D 12000	Grid-tied PV inverter	TUV Rheinland	2013/04/19	2019/12/31	16802129001	AK502525870001	Yes	No	RCD or RCM Type B required on supply side
Beijing Kinglong New Energy	Solartec D 10000	Grid-tied PV inverter	TUV Rheinland	2013/04/19	2019/12/31	16802129001	AK502525870001	Yes	No	RCD or RCM Type B required on supply side
Canadian Solar	CSI-20, 25 and 30KTL-GI-FL	Grid-tied PV inverter	TUV Rheinland	2018/05/07		50128276 002	AK 50406933 0001	No	Yes	
Canadian Solar	CSI-40KTL-GI-FL	Grid-tied PV inverter	TUV Rheinland	2018/05/03		50131287 002	AK 50406675 0001	No	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	No	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Danfoss	FLX Pro 5	Grid-tied PV inverter	Bureau Veritas	2014/03/28	2019/12/31	13TH0158-NRS 097-2-1	U14-0210	Yes	No	The unit must be provided with an external RCMU type B
Danfoss	FLX Pro 6	Grid-tied PV inverter	Bureau Veritas	2014/03/28	2019/12/31	13TH0158-NRS 097-2-1	U14-0210	Yes	No	The unit must be provided with an external RCMU type B
Danfoss	FLX Pro 7	Grid-tied PV inverter	Bureau Veritas	2014/03/28	2019/12/31	13TH0158-NRS 097-2-1	U14-0210	Yes	No	The unit must be provided with an external RCMU type B
Danfoss	FLX Pro 8	Grid-tied PV inverter	Bureau Veritas	2014/03/28	2019/12/31	13TH0158-NRS 097-2-1	U14-0210	Yes	No	The unit must be provided with an external RCMU type B
Danfoss	FLX Pro 9	Grid-tied PV inverter	Bureau Veritas	2014/03/28	2019/12/31	13TH0158-NRS 097-2-1	U14-0210	Yes	No	The unit must be provided with an external RCMU type B

Danfoss	FLX Pro 10	Grid-tied PV inverter	Bureau Veritas	2014/03/28	2019/12/31	13TH0158-NRS 097-2-1	U14-0210	Yes	No	The unit must be provided with an external RCMU type B
Danfoss	FLX Pro 12.5	Grid-tied PV inverter	Bureau Veritas	2014/03/28	2019/12/31	13TH0158-NRS 097-2-1	U14-0210	Yes	No	The unit must be provided with an external RCMU type B
Danfoss	FLX Pro 15	Grid-tied PV inverter	Bureau Veritas	2014/03/28	2019/12/31	13TH0158-NRS 097-2-1	U14-0210	Yes	No	The unit must be provided with an external RCMU type B
Danfoss	FLX Pro 17	Grid-tied PV inverter	Bureau Veritas	2014/03/28	2019/12/31	13TH0158-NRS 097-2-1	U14-0210	Yes	No	The unit must be provided with an external RCMU type B
Delta	RPI-M15A	Grid-tied PV inverter	Primara	2015/04/20	2019/12/31	13KFS043-12	15-072-00	Yes	No	
Delta	RPI-M20A	Grid-tied PV inverter	Primara	2015/04/20	2019/12/31	13KFS043-12	15-072-00	Yes	No	
Delta	RPI-M30A_xxx	Grid-tied PV inverter	Bureau Veritas	2015/11/20	2019/12/31	PV151023C12-NRS 097-2-1	U15-0417	Yes	No	1st 'x' denote DC switch ['1' - with and '0' - without]; 2nd 'x' denote for number of MPPT; 3rd 'x' denote option accessories and protection componenets ['0' - with SPD & fuse and have 8 DC input strings, '1' - without SPD & fuse and have 6 DC input strings]
Delta	RPI-M50A_xxx	Grid-tied PV inverter	Bureau Veritas	2015/11/20	2019/12/31	PVZA151023C13-NRS 097-2-1	U15-0416	Yes	No	1st 'x' denote DC switch ['1' - with and '0' - without]; 2nd 'x' denote for number of MPPT; 3rd 'x' denote option accessories and protection componenets ['0' - with SPD & fuse, '1' - without SPD & fuse and '2' - without SPD & with fuse]
Friem	RECon S3-10	Grid-tied PV inverter	TUV Rheinland	2014/01/06	2019/12/31	16802129002	AK50273615 0001	Yes	No	RCD or RCM Type B required on supply side
Friem	RECon S3-12	Grid-tied PV inverter	TUV Rheinland	2014/01/06	2019/12/31	16802129002	AK50273615 0001	Yes	No	RCD or RCM Type B required on supply side
Friem	RECon S3-15	Grid-tied PV inverter	TUV Rheinland	2014/01/06	2019/12/31	16802129002	AK50273615 0001	Yes	No	RCD or RCM Type B required on supply side
Fronius	SYMO 10.0-3-M	Grid-tied PV inverter	TUV Rheinland	2014/10/14	2019/12/31	28106966001	AK 60097128 0001	Yes	No	
Fronius	SYMO 12.5-3-M	Grid-tied PV inverter	TUV Rheinland	2014/10/14	2019/12/31	28106966001	AK 60097128 0001	Yes	No	
Fronius	SYMO 15.0-3-M	Grid-tied PV inverter	TUV Rheinland	2014/10/14	2019/12/31	28106966001	AK 60097128 0001	Yes	No	
Fronius	SYMO 17.5-3-M	Grid-tied PV inverter	TUV Rheinland	2014/10/14	2019/12/31	28106966001	AK 60097128 0001	Yes	No	
Fronius	SYMO 20.0-3-M	Grid-tied PV inverter	TUV Rheinland	2014/10/14	2019/12/31	28106966001	AK 60097128 0001	Yes	No	
Fronius	SYMO 8.2-3-M	Grid-tied PV inverter	TUV Rheinland	2014/09/23	2019/12/31	28106964001	AK 60096700 0001	Yes	No	
Fronius	SYMO 8.0-3-M	Grid-tied PV inverter	TUV Rheinland	2014/09/23	2019/12/31	28106964001	AK 60096700 0001	Yes	No	
Fronius	SYMO 7.0-3-M	Grid-tied PV inverter	TUV Rheinland	2014/09/23	2019/12/31	28106964001	AK 60096700 0001	Yes	No	
Fronius	SYMO 6.7-3-M	Grid-tied PV inverter	TUV Rheinland	2014/09/23	2019/12/31	28106964001	AK 60096700 0001	Yes	No	
Fronius	SYMO 6.0-3-M	Grid-tied PV inverter	TUV Rheinland	2014/09/23	2019/12/31	28106964001	AK 60096700 0001	Yes	No	
Fronius	SYMO 5.5-3-M	Grid-tied PV inverter	TUV Rheinland	2014/09/23	2019/12/31	28106964001	AK 60096700 0001	Yes	No	
Fronius	SYMO 5.0-3-M	Grid-tied PV inverter	TUV Rheinland	2014/09/23	2019/12/31	28106964001	AK 60096700 0001	Yes	No	
Fronius	SYMO 4.5-3-M	Grid-tied PV inverter	TUV Rheinland	2014/09/23	2019/12/31	28106964001	AK 60096700 0001	Yes	No	
Fronius	SYMO 3.7-3-M	Grid-tied PV inverter	TUV Rheinland	2014/09/23	2019/12/31	28106964001	AK 60096700 0001	Yes	No	
Fronius	SYMO 3.0-3-M	Grid-tied PV inverter	TUV Rheinland	2014/09/23	2019/12/31	28106964001	AK 60096700 0001	Yes	No	
Fronius	SYMO 4.5-3-S	Grid-tied PV inverter	TUV Rheinland	2014/09/23	2019/12/31	28106930001	AK 60096699 0001	Yes	No	
Fronius	SYMO 3.7-3-S	Grid-tied PV inverter	TUV Rheinland	2014/09/23	2019/12/31	28106930001	AK 60096699 0001	Yes	No	
Fronius	SYMO 3.0-3-S	Grid-tied PV inverter	TUV Rheinland	2014/09/23	2019/12/31	28106930001	AK 60096699 0001	Yes	No	
Fronius	SYMO HYBRID 3.0-3-S	Hybrid PV inverter grid-tied	TUV Rheinland	2016/03/11	2019/12/31	28108910001	AK 60109324 0001	Yes	No	
Fronius	SYMO HYBRID 4.0-3-S	Hybrid PV inverter grid-tied	TUV Rheinland	2016/03/11	2019/12/31	28108910001	AK 60109324 0001	Yes	No	
Fronius	SYMO HYBRID 5.0-3-S	Hybrid PV inverter grid-tied	TUV Rheinland	2016/03/11	2019/12/31	28108910001	AK 60109324 0001	Yes	No	
Fronius	GALVO 3.1-1	Grid-tied PV inverter	TUV Rheinland	2014/09/26	2019/12/31	28106965001	AK 60096769 0001	Yes	No	
Fronius	GALVO 3.0-1	Grid-tied PV inverter	TUV Rheinland	2014/09/26	2019/12/31	28106965001	AK 60096769 0001	Yes	No	
Fronius	GALVO 2.5-1	Grid-tied PV inverter	TUV Rheinland	2014/09/26	2019/12/31	28106965001	AK 60096769 0001	Yes	No	
Fronius	GALVO 2.0-1	Grid-tied PV inverter	TUV Rheinland	2014/09/26	2019/12/31	28106965001	AK 60096769 0001	Yes	No	
Fronius	GALVO 1.5-1	Grid-tied PV inverter	TUV Rheinland	2014/09/26	2019/12/31	28106965001	AK 60096769 0001	Yes	No	
Fronius	Primo 3.0-1	Grid-tied PV inverter	TUV Rheinland	2015/06/09	2019/12/31	28107823001	AK 60102213 0001	Yes	No	
Fronius	Primo 3.5-1	Grid-tied PV inverter	TUV Rheinland	2015/06/09	2019/12/31	28107823001	AK 60102213 0001	Yes	No	
Fronius	Primo 3.6-1	Grid-tied PV inverter	TUV Rheinland	2015/06/09	2019/12/31	28107823001	AK 60102213 0001	Yes	No	
Fronius	Primo 4.0-1	Grid-tied PV inverter	TUV Rheinland	2015/06/09	2019/12/31	28107823001	AK 60102213 0001	Yes	No	
Fronius	Primo 4.6-1	Grid-tied PV inverter	TUV Rheinland	2015/06/09	2019/12/31	28107823001	AK 60102213 0001	Yes	No	
Fronius	Primo 5.0-1	Grid-tied PV inverter	TUV Rheinland	2015/06/09	2019/12/31	28107823001	AK 60102213 0001	Yes	No	
Fronius	Primo 5.0-1 AUS	Grid-tied PV inverter	TUV Rheinland	2015/06/09	2019/12/31	28107823001	AK 60102213 0001	Yes	No	
Fronius	Primo 6.0-1	Grid-tied PV inverter	TUV Rheinland	2015/06/09	2019/12/31	28107823001	AK 60102213 0001	Yes	No	
Fronius	Primo 8.2-1	Grid-tied PV inverter	TUV Rheinland	2015/06/09	2019/12/31	28107823001	AK 60102213 0001	Yes	No	
Fronius	ECO 25.0-3-S	Grid-tied PV inverter	TUV Rheinland	2015/10/30	2019/12/31	28108445001	AK 60105872 0001	Yes	No	
Fronius	ECO 27.0-3-S	Grid-tied PV inverter	TUV Rheinland	2015/10/30	2019/12/31	28108445001	AK 60105872 0001	Yes	No	
Goodwe	GW 3648S-ES	Grid-tied PV inverter	TÜV SÜD	2015/04/09	2019/12/31	704091503805-00	D150483373011	Yes	No	
Goodwe	GW3648D-ES	Hybrid PV inverter grid-tied	TÜV SÜD	2018/11/12		704091815302-00	D 083373 0039 Rev.00	No	Yes	
Goodwe	GW4248D-ES	Grid-tied PV inverter	TÜV SÜD	2015/04/09	2019/12/31	704091503805-00	D150483373011	Yes	No	
Goodwe	GW5048D-ES	Hybrid PV inverter grid-tied	TÜV SÜD	2018/11/12		704091815302-00	D 083373 0039 Rev.00	No	Yes	
Goodwe	GW3048-EM	Hybrid PV inverter grid-tied	TUV Rheinland	2017/07/14		50085060 001	AK 50383738 0001	No	Yes	
Goodwe	GW3648-EM	Hybrid PV inverter grid-tied	TUV Rheinland	2017/07/14		50085060 001	AK 50383738 0001	No	Yes	
Goodwe	GW5048-EM	Hybrid PV inverter grid-tied	TUV Rheinland	2017/07/14		50085060 001	AK 50383738 0001	No	Yes	
Growatt	Growatt 7000UE	Grid-tied PV inverter	Bureau Veritas	2014/03/21	2019/12/31	12TH0124-NRS 097-2-1	U14-0190	Yes	No	
Growatt	Growatt 8000UE	Grid-tied PV inverter	Bureau Veritas	2014/03/21	2019/12/31	12TH0124-NRS 097-2-1	U14-0190	Yes	No	
Growatt	Growatt 9000UE	Grid-tied PV inverter	Bureau Veritas	2014/03/21	2019/12/31	12TH0124-NRS 097-2-1	U14-0190	Yes	No	
Growatt	Growatt 10000UE	Grid-tied PV inverter	Bureau Veritas	2014/03/21	2019/12/31	12TH0124-NRS 097-2-1	U14-0190	Yes	No	
Growatt	Growatt 12000UE	Grid-tied PV inverter	Bureau Veritas	2014/03/21	2019/12/31	12TH0124-NRS 097-2-1	U14-0190	Yes	No	
Growatt	Growatt 18000UE	Grid-tied PV inverter	Bureau Veritas	2014/03/21	2019/12/31	12TH0124-NRS 097-2-1	U14-0190	Yes	No	
Growatt	Growatt 20000UE	Grid-tied PV inverter	Bureau Veritas	2014/03/21	2019/12/31	12TH0124-NRS 097-2-1	U14-0190	Yes	No	
Hoymiles	MI-500	Grid-tied PV inverter	Bureau Veritas	2018/07/10		BMH-18JA0680FCSP-R1	U18-0374	No	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 NRS 097-2-1 requirements and default settings.
Hoymiles	MI-600	Grid-tied PV inverter	Bureau Veritas	2018/07/10		BMH-18JA0680FCSP-R1	U18-0374	No	Yes	
Hoymiles	MI-700	Grid-tied PV inverter	Bureau Veritas	2018/07/10		BMH-18JA0680FCSP-R1	U18-0374	No	Yes	
Hoymiles	MI-1000	Grid-tied PV inverter	Bureau Veritas	2018/07/27		ZEM-18AP0889FCSHP	U18-0435	No	Yes	
Hoymiles	MI-1000T	Grid-tied PV inverter	Bureau Veritas	2018/07/27		ZEM-18AP0889FCSHP	U18-0435	No	Yes	
Hoymiles	MI-1200	Grid-tied PV inverter	Bureau Veritas	2018/07/27		ZEM-18AP0889FCSHP	U18-0435	No	Yes	
Hoymiles	MI-1200T	Grid-tied PV inverter	Bureau Veritas	2018/07/27		ZEM-18AP0889FCSHP	U18-0435	No	Yes	
Huawei	SUN 2000-8KTL	Grid-tied PV inverter	Bureau Veritas	2015/03/16	2019/12/31	PV141230N007	U15-0085	Yes	No	
Huawei	SUN 2000-10KTL	Grid-tied PV inverter	Bureau Veritas	2015/03/16	2019/12/31	PV141230N007	U15-0085	Yes	No	
Huawei	SUN 2000-12KTL	Grid-tied PV inverter	Bureau Veritas	2015/03/16	2019/12/31	PV141230N007	U15-0085	Yes	No	
Huawei	SUN 2000-15KTL	Grid-tied PV inverter	Bureau Veritas	2015/03/16	2019/12/31	PV141230N007	U15-0085	Yes	No	
Huawei	SUN 2000-17KTL	Grid-tied PV inverter	Bureau Veritas	2015/03/16	2019/12/31	PV141230N007	U15-0085	Yes	No	
Huawei	SUN 2000-20KTL	Grid-tied PV inverter	Bureau Veritas	2015/03/16	2019/12/31	PV141230N007	U15-0085	Yes	No	
Huawei	SUN 2000-23KTL	Grid-tied PV inverter	Bureau Veritas	2015/03/16	2019/12/31	PV141230N007	U15-0085	Yes	No	
Huawei	SUN 2000-33KTL	Grid-tied PV inverter	TÜV SÜD	2015/10/29	2019/12/31	70 409 15 062 16-00	D 15 10 80793 039	Yes	No	A type B RCD should be used between the inverter and grid according to user manual.
Huawei	SUN 2000-36KTL	Grid-tied PV inverter	Bureau Veritas	2016/08/02	2019/12/31	PVZA160707N051	U16-0442	Yes	No	
Huawei	SUN 2000-50KTL-MO	Grid-tied PV inverter	TÜV SÜD	2018/09/21		70 409 18 051 24-01	D 041829 3318	No	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	No	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.

Icon	EPHS-ICON-1P-01A	Hybrid PV inverter grid-tied	Eurofins	2016/06/15	2019/12/31	EFSH16040860-IE-01-L01	S3M21605-0050-31698	Yes	No	
i-Energy	GT 260	Micro grid-tied PV inverter	Bureau Veritas	2014/03/28	2019/12/31	PV140226C14-NRS-2-1	U14-0211	Yes	No	i-Energy GT 260 micro inverter is not equipped with an automatic 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 NRS 097-2-1 requirements and default settings. The unit must be provided with an external RCMU type A.
Imeon Energy	Imeon 3.6	Hybrid PV inverter grid-tied	TUV Rheinland	2015/07/24	2019/12/31	17048970001	AK 50316832 0001	Yes	No	
Imeon Energy	Imeon 9.12	Hybrid PV inverter grid-tied	TUV Rheinland	2016/02/25	2019/12/31	17048968001	AK 50330983 0001	Yes	No	
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	No	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	No	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	No	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	No	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	No	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	No	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	No	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	No	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	No	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	No	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	No	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	No	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	No	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	No	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	No	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.
JFY	Suntree 5000TL	Grid-tied PV inverter	Bureau Veritas	2016/01/21	2019/12/31	PV151204N028-NRS 097-2-1	U16-0012	Yes	No	
JFY	Suntree 6000TL	Grid-tied PV inverter	Bureau Veritas	2016/01/21	2019/12/31	PV151204N028-NRS 097-2-1	U16-0012	Yes	No	
JFY	Suntree 8000TL	Grid-tied PV inverter	Bureau Veritas	2016/01/21	2019/12/31	PV151204N028-NRS 097-2-1	U16-0012	Yes	No	
JFY	Suntree 10000TL	Grid-tied PV inverter	Bureau Veritas	2016/01/21	2019/12/31	PV151204N028-NRS 097-2-1	U16-0012	Yes	No	
JFY	Suntree 12000TL	Grid-tied PV inverter	Bureau Veritas	2016/01/21	2019/12/31	PV151204N028-NRS 097-2-1	U16-0012	Yes	No	
JFY	Suntree 15000TL	Grid-tied PV inverter	Bureau Veritas	2016/01/21	2019/12/31	PV151204N028-NRS 097-2-1	U16-0012	Yes	No	
JFY	Suntree 17000TL	Grid-tied PV inverter	Bureau Veritas	2016/01/21	2019/12/31	PV151204N028-NRS 097-2-1	U16-0012	Yes	No	
JFY	Suntree 20000TL	Grid-tied PV inverter	Bureau Veritas	2016/01/21	2019/12/31	PV151204N028-NRS 097-2-1	U16-0012	Yes	No	
JFY	Suntree 30000TL	Grid-tied PV inverter	Bureau Veritas	2016/01/21	2019/12/31	PV151204N028-NRS 097-2-1	U16-0012	Yes	No	
KACO	blueplanet 5.0 TL3 M2 WM OD IIG0	Grid-tied PV inverter	Bureau Veritas	2016/09/22	2019/12/31	14TH0348-NRS 097-2-1_1	U16-0545	Yes	No	
KACO	blueplanet 6.5 TL3 M2 WM OD IIG0	Grid-tied PV inverter	Bureau Veritas	2016/09/22	2019/12/31	14TH0348-NRS 097-2-1_1	U16-0545	Yes	No	
KACO	blueplanet 7.5 TL3 M2 WM OD IIG0	Grid-tied PV inverter	Bureau Veritas	2016/09/22	2019/12/31	14TH0348-NRS 097-2-1_1	U16-0545	Yes	No	
KACO	blueplanet 8.6 TL3 M2 WM OD IIG0	Grid-tied PV inverter	Bureau Veritas	2016/09/22	2019/12/31	14TH0348-NRS 097-2-1_1	U16-0545	Yes	No	
KACO	blueplanet 9.0 TL3 M2 WM OD IIG0	Grid-tied PV inverter	Bureau Veritas	2016/09/22	2019/12/31	14TH0348-NRS 097-2-1_1	U16-0545	Yes	No	
KACO	blueplanet 10.0 TL3 M2 WM OD IIG0	Grid-tied PV inverter	Bureau Veritas	2016/09/22	2019/12/31	14TH0348-NRS 097-2-1_1	U16-0545	Yes	No	
KACO	blueplanet 2.0 TL 1M1	Grid-tied PV inverter	Primara	2015/10/19	2019/12/31	14PP047-17	15-202-00	Yes	No	
KACO	blueplanet 2.6 TL 1M1	Grid-tied PV inverter	Primara	2015/10/19	2019/12/31	14PP047-17	15-202-00	Yes	No	
KACO	blueplanet 3.0 TL 1M1	Grid-tied PV inverter	Primara	2015/10/19	2019/12/31	14PP047-17	15-202-00	Yes	No	
KACO	blueplanet 3.0 TL 1M2	Grid-tied PV inverter	Primara	2015/10/19	2019/12/31	14PP047-17	15-202-00	Yes	No	
KACO	blueplanet 3.5 TL 1M2	Grid-tied PV inverter	Primara	2015/10/19	2019/12/31	14PP047-17	15-202-00	Yes	No	
KACO	blueplanet 3.7 TL 1M2	Grid-tied PV inverter	Primara	2015/10/19	2019/12/31	14PP047-17	15-202-00	Yes	No	
KACO	blueplanet 4.0 TL 1M2	Grid-tied PV inverter	Primara	2015/10/19	2019/12/31	14PP047-17	15-202-00	Yes	No	
KACO	blueplanet 4.6 TL 1M2	Grid-tied PV inverter	Primara	2015/10/19	2019/12/31	14PP047-17	15-202-00	Yes	No	
KACO	blueplanet 5.0 TL 1M2	Grid-tied PV inverter	Primara	2015/10/19	2019/12/31	14PP047-17	15-202-00	Yes	No	
KACO	blueplanet 50.0 TL3 M1 WM OD IIGM	Grid-tied PV inverter	Bureau Veritas	2016/02/26	2019/12/31	15TH0250-NRS 097-2-1	U16-0057	Yes	No	
KACO	blueplanet 50.0 TL3 M1 WM OD IIGB	Grid-tied PV inverter	Bureau Veritas	2016/02/26	2019/12/31	15TH0250-NRS 097-2-1	U16-0057	Yes	No	
KACO	blueplanet 50.0 TL3 M1 WM OD IIGX	Grid-tied PV inverter	Bureau Veritas	2016/02/26	2019/12/31	15TH0250-NRS 097-2-1	U16-0057	Yes	No	
KACO	Powador 60.0 TL3	Grid-tied PV inverter	Bureau Veritas	2016/04/11	2019/12/31	12TH0351-NRS 097-2-1_0	U16-0204	Yes	No	
KACO	Powador 12.0 TL3-INT	Grid-tied PV inverter	Bureau Veritas	2016/08/24	2019/12/31	10TH0306-NRS 097-2-1_0	U16-0472	Yes	No	
KACO	Powador 14.0 TL3-INT	Grid-tied PV inverter	Bureau Veritas	2016/08/24	2019/12/31	10TH0306-NRS 097-2-1_0	U16-0472	Yes	No	
KACO	Powador 18.0 TL3-INT	Grid-tied PV inverter	Bureau Veritas	2016/08/24	2019/12/31	10TH0306-NRS 097-2-1_0	U16-0472	Yes	No	
KACO	Powador 20.0 TL3-INT	Grid-tied PV inverter	Bureau Veritas	2016/08/24	2019/12/31	10TH0306-NRS 097-2-1_0	U16-0472	Yes	No	
KACO	blueplanet 20.0 TL3 M2 WM OD IIGO	Grid-tied PV inverter	Bureau Veritas	2016/08/24	2019/12/31	10TH0306-NRS 097-2-1_0	U16-0472	Yes	No	
Livoltek	Hyper-2000	Hybrid PV inverter grid-tied	Dekra	2019/07/05		6055811 . 50	6055811.01AOC	No	Yes	
Livoltek	Hyper-3000	Hybrid PV inverter grid-tied	Dekra	2019/07/05		6055811 . 50	6055811.01AOC	No	Yes	
Livoltek	Hyper-3680	Hybrid PV inverter grid-tied	Dekra	2019/07/05		6055811 . 50	6055811.01AOC	No	Yes	
Livoltek	Hyper-4600	Hybrid PV inverter grid-tied	Dekra	2019/07/05		6055811 . 50	6055811.01AOC	No	Yes	
Livoltek	Hyper-5000	Hybrid PV inverter grid-tied	Dekra	2019/07/05		6055811 . 50	6055811.01AOC	No	Yes	
Livoltek	Retro-2000	Battery based inverter grid-tied	Dekra	2019/07/05		6055811 . 50	6055811.01AOC	No	Yes	
Livoltek	Retro-3000	Battery based inverter grid-tied	Dekra	2019/07/05		6055811 . 50	6055811.01AOC	No	Yes	
Livoltek	Retro-3680	Battery based inverter grid-tied	Dekra	2019/07/05		6055811 . 50	6055811.01AOC	No	Yes	
Livoltek	Retro-4600	Battery based inverter grid-tied	Dekra	2019/07/05		6055811 . 50	6055811.01AOC	No	Yes	
Livoltek	Retro-5000	Battery based inverter grid-tied	Dekra	2019/07/05		6055811 . 50	6055811.01AOC	No	Yes	
Omnik New Energy	Omniksol-13k-TL	Grid-tied PV inverter	Bureau Veritas	2016/06/16	2019/12/31	12TH0315-NRS 097-2-1	U16-0344	Yes	No	
Omnik New Energy	Omniksol-17k-TL	Grid-tied PV inverter	Bureau Veritas	2016/06/16	2019/12/31	12TH0315-NRS 097-2-1	U16-0344	Yes	No	
Omnik New Energy	Omniksol-20k-TL	Grid-tied PV inverter	Bureau Veritas	2016/06/16	2019/12/31	12TH0315-NRS 097-2-1	U16-0344	Yes	No	
Omnik New Energy	Omniksol-1k-TL2	Grid-tied PV inverter	Bureau Veritas	2015/05/06	2019/12/31	OMK-15MA2119FTSP-NRS 097-2-1	U15-0150	Yes	No	
Omnik New Energy	Omniksol-1.5k-TL2	Grid-tied PV inverter	Bureau Veritas	2015/05/06	2019/12/31	OMK-15MA2119FTSP-NRS 097-2-1	U15-0150	Yes	No	
Omnik New Energy	Omniksol-2k-TL2	Grid-tied PV inverter	Bureau Veritas	2015/05/06	2019/12/31	OMK-15MA2119FTSP-NRS 097-2-1	U15-0150	Yes	No	
Omnik New Energy	Omniksol-2.5k-TL2-S	Grid-tied PV inverter	Bureau Veritas	2015/05/06	2019/12/31	OMK-15MA2119FTSP-NRS 097-2-1	U15-0150	Yes	No	
Omnik New Energy	Omniksol-3k-TL2-S	Grid-tied PV inverter	Bureau Veritas	2015/05/06	2019/12/31	OMK-15MA2119FTSP-NRS 097-2-1	U15-0150	Yes	No	
Omnik New Energy	Omniksol-3k-TL2	Grid-tied PV inverter	Bureau Veritas	2015/05/06	2019/12/31	OMK-15MA2119FTSP-NRS 097-2-1	U15-0150	Yes	No	
Omnik New Energy	Omniksol-4k-TL2	Grid-tied PV inverter	Bureau Veritas	2015/05/06	2019/12/31	OMK-15MA2119FTSP-NRS 097-2-1	U15-0150	Yes	No	
Omnik New Energy	Omniksol-5k-TL2	Grid-tied PV inverter	Bureau Veritas	2015/05/06	2019/12/31	OMK-15MA2119FTSP-NRS 097-2-1	U15-0150	Yes	No	
Omron	KP100L-OD-EU	Grid-tied PV inverter	Primara	2015/10/29	2019/12/31	13KFS042-04_1	15-200-01	Yes	No	
ReneSola	Replus SineON IH3KW-48-V	Hybrid PV inverter grid-tied	Eurofins	2015/07/16	2019/12/31	EFSH15051932-IE-01-L05	S3D21507-0003	Yes	No	
Samil Power	Solar River 1100 TL-S	Grid-tied PV inverter	Eurofins	2017/02/27	2019/12/31	EFSH16010328-IE-01-L01	S3M21605-0046-35676	Yes	No	
Samil Power	Solar River 1600 TL-S	Grid-tied PV inverter	Eurofins	2017/02/27	2019/12/31	EFSH16010328-IE-01-L01	S3M21605-0046-35676	Yes	No	
Samil Power	Solar River 2100 TL-S	Grid-tied PV inverter	Eurofins	2017/02/27	2019/12/31	EFSH16010328-IE-01-L01	S3M21605-0046-35676	Yes	No	
Samil Power	Solar River 2600 TL-S	Grid-tied PV inverter	Eurofins	2017/02/27	2019/12/31	EFSH16010328-IE-01-L01	S3M21605-0046-35676	Yes	No	
Samil Power	Solar River 3200 TL-S	Grid-tied PV inverter	Eurofins	2017/02/27	2019/12/31	EFSH16010328-IE-01-L01	S3M21605-0046-35676	Yes	No	
Samil Power	Solar River 3400 TL-D	Grid-tied PV inverter	Eurofins	2017/02/27	2019/12/31	EFSH16010328-IE-01-L02	S3M21605-0049-35677	Yes	No	

Samil Power	Solar River 4000 TL-D	Grid-tied PV inverter	Eurofins	2017/02/27	2019/12/31	EFSH16010328-IE-01-L02	S3M21605-0049-35677	Yes	No	
Samil Power	Solar River 4500 TL-D	Grid-tied PV inverter	Eurofins	2017/02/27	2019/12/31	EFSH16010328-IE-01-L02	S3M21605-0049-35677	Yes	No	
Samil Power	Solar River 5000 TL-D	Grid-tied PV inverter	Eurofins	2017/02/27	2019/12/31	EFSH16010328-IE-01-L02	S3M21605-0049-35677	Yes	No	
Samil Power	Solar River 5200 TL-D	Grid-tied PV inverter	Eurofins	2017/02/27	2019/12/31	EFSH16010328-IE-01-L02	S3M21605-0049-35677	Yes	No	
Samil Power	SolarLake 5500TL-PM	Grid-tied PV inverter	Eurofins	2017/02/27	2019/12/31	EFSH16010328-IE-01-L03	S3M21605-0052-35678	Yes	No	
Samil Power	SolarLake 7000TL-PM	Grid-tied PV inverter	Eurofins	2017/02/27	2019/12/31	EFSH16010328-IE-01-L03	S3M21605-0052-35678	Yes	No	
Samil Power	SolarLake 8500TL-PM	Grid-tied PV inverter	Eurofins	2017/02/27	2019/12/31	EFSH16010328-IE-01-L03	S3M21605-0052-35678	Yes	No	
Samil Power	SolarLake 10000TL-PM	Grid-tied PV inverter	Eurofins	2017/02/27	2019/12/31	EFSH16010328-IE-01-L03	S3M21605-0052-35678	Yes	No	
Schneider	Conext CL 20000E	Grid-tied PV inverter	Bureau Veritas	2014/11/21	2019/12/31	PVZA141106C14-NRS 097-2-1	U14-0636	Yes	No	
Schneider	Conext CL 25000E	Grid-tied PV inverter	Bureau Veritas	2014/11/21	2019/12/31	PVZA141106C14-NRS 097-2-1	U14-0636	Yes	No	
Schneider	Conext TL 15000E	Grid-tied PV inverter	Bureau Veritas	2014/12/12	2019/12/31	PV141204C06-NRS 097-2-1	U14-0671	Yes	No	
Schneider	Conext TL 20000E	Grid-tied PV inverter	Bureau Veritas	2014/12/12	2019/12/31	PV141204C06-NRS 097-2-1	U14-0671	Yes	No	
Schneider	Conext CL-60E	Grid-tied PV inverter	TÜV SÜD	2018/02/09		701261703501-01	D 18 01 98208 006	No	Yes	
Sermatec	SMT-5K-TL-LV	Hybrid PV inverter grid-tied	TÜV SÜD	2019/06/25		64.290.19.01426.01	D 102650 0007	No	Yes	
Sermatec	SMT-10K-TL-TH	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/25		64.290.18.04743.01	D 102650 0009	No	Yes	
SMA	SB5.0-1AV-40	Grid-tied PV inverter	Bureau Veritas	2016/06/20	2019/12/31	160408N064-3	U16-0354	Yes	No	
SMA	SB4.0-1AV-40	Grid-tied PV inverter	Bureau Veritas	2016/06/20	2019/12/31	160408N064-3	U16-0354	Yes	No	
SMA	SB3.6-1AV-40	Grid-tied PV inverter	Bureau Veritas	2016/06/20	2019/12/31	160408N064-3	U16-0354	Yes	No	
SMA	SB3.0-1AV-40	Grid-tied PV inverter	Bureau Veritas	2016/06/20	2019/12/31	160408N064-3	U16-0354	Yes	No	
SMA	SB 1.5 - 1VL - 40	Grid-tied PV inverter	Bureau Veritas	2015/08/04	2019/12/31	14TH0397-NRS 097-2-1	U15-0270	Yes	No	
SMA	SB 2.5 - 1VL - 40	Grid-tied PV inverter	Bureau Veritas	2015/08/04	2019/12/31	14TH0397-NRS 097-2-1	U15-0270	Yes	No	
SMA	STP 5000 TL-20	Grid-tied PV inverter	Bureau Veritas	2014/07/23	2019/12/31	12TH0259-NRS 097-2-1_3	U14-0387	Yes	No	
SMA	STP 6000 TL-20	Grid-tied PV inverter	Bureau Veritas	2014/07/23	2019/12/31	12TH0259-NRS 097-2-1_3	U14-0387	Yes	No	
SMA	STP 7000 TL-20	Grid-tied PV inverter	Bureau Veritas	2014/07/23	2019/12/31	12TH0259-NRS 097-2-1_3	U14-0387	Yes	No	
SMA	STP 8000 TL-20	Grid-tied PV inverter	Bureau Veritas	2014/07/23	2019/12/31	12TH0259-NRS 097-2-1_3	U14-0387	Yes	No	
SMA	STP 9000 TL-20	Grid-tied PV inverter	Bureau Veritas	2014/07/23	2019/12/31	12TH0259-NRS 097-2-1_3	U14-0387	Yes	No	
SMA	STP 10000 TL-20	Grid-tied PV inverter	Bureau Veritas	2014/07/23	2019/12/31	12TH0259-NRS 097-2-1_3	U14-0387	Yes	No	
SMA	STP 12000 TL-20	Grid-tied PV inverter	Bureau Veritas	2014/07/23	2019/12/31	12TH0259-NRS 097-2-1_3	U14-0387	Yes	No	
SMA	STP 25000 TL-30	Grid-tied PV inverter	Bureau Veritas	2016/10/19	2019/12/31	14TH0304-NRS 097-2-1_2	U16-0579	Yes	No	
SMA	STP 20000 TL-30	Grid-tied PV inverter	Bureau Veritas	2016/10/19	2019/12/31	14TH0304-NRS 097-2-1_2	U16-0579	Yes	No	
SMA	STP 17000 TL-30	Grid-tied PV inverter	Bureau Veritas	2016/10/19	2019/12/31	14TH0304-NRS 097-2-1_2	U16-0579	Yes	No	
SMA	STP 15000 TL-30	Grid-tied PV inverter	Bureau Veritas	2016/10/19	2019/12/31	14TH0304-NRS 097-2-1_2	U16-0579	Yes	No	
SMA	STP 8000TL-10	Grid-tied PV inverter	Bureau Veritas	2015/07/08	2019/12/31	10TH0052-NRS 097-2-1	U15-0245	Yes	No	
SMA	STP 10000TL-10	Grid-tied PV inverter	Bureau Veritas	2015/07/08	2019/12/31	10TH0052-NRS 097-2-1	U15-0245	Yes	No	
SMA	STP 12000TL-10	Grid-tied PV inverter	Bureau Veritas	2015/07/08	2019/12/31	10TH0052-NRS 097-2-1	U15-0245	Yes	No	
SMA	STP 15000TL-10	Grid-tied PV inverter	Bureau Veritas	2015/07/08	2019/12/31	10TH0052-NRS 097-2-1	U15-0245	Yes	No	
SMA	STP 15000TLHE-10	Grid-tied PV inverter	Bureau Veritas	2015/07/08	2019/12/31	10TH0052-NRS 097-2-1	U15-0245	Yes	No	
SMA	STP 15000TLEE-10	Grid-tied PV inverter	Bureau Veritas	2015/07/08	2019/12/31	10TH0052-NRS 097-2-1	U15-0245	Yes	No	
SMA	STP 17000TL-10	Grid-tied PV inverter	Bureau Veritas	2015/07/08	2019/12/31	10TH0052-NRS 097-2-1	U15-0245	Yes	No	
SMA	STP 20000TLHE-10	Grid-tied PV inverter	Bureau Veritas	2015/07/08	2019/12/31	10TH0052-NRS 097-2-1	U15-0245	Yes	No	
SMA	STP 20000TLEE-10	Grid-tied PV inverter	Bureau Veritas	2015/07/08	2019/12/31	10TH0052-NRS 097-2-1	U15-0245	Yes	No	
SMA	SB 3000TL-21	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	11TH0290-NRS 097-2-1	U15-0289	Yes	No	
SMA	SB 3600TL-21	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	11TH0290-NRS 097-2-1	U15-0289	Yes	No	
SMA	SB 4000TL-21	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	11TH0290-NRS 097-2-1	U15-0289	Yes	No	
SMA	SB 5000TL-21	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	11TH0290-NRS 097-2-1	U15-0289	Yes	No	
SMA	SB 2500TLST-21	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	11TH0290-NRS 097-2-1	U15-0289	Yes	No	
SMA	SB 3000TLST-21	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	11TH0290-NRS 097-2-1	U15-0289	Yes	No	
SMA	MLX 60	Grid-tied PV inverter	Bureau Veritas	2015/02/20	2019/12/31	14TH0075-NRS 097-2-1_1	U15-0066	Yes	No	The unit must be provided with an external RCMU type B
SMA	STP50-40	Grid-tied PV inverter	Bureau Veritas	2018/06/29		17TH0199-NRS 097-2-1_2	U18-0334	No	Yes	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.
SMA	STP60-10	Grid-tied PV inverter	Bureau Veritas	2018/09/26		14TH0075-NRS 097-2-1_3	U18-0451	No	Yes	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.
SMA	SHP75-10	Grid-tied PV inverter	Bureau Veritas	2018/09/26		14TH0075-NRS 097-2-1_3	U18-0451	No	Yes	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.
SMA	STPS 60-10	Battery based PV inverter grid-tied	Bureau Veritas	2018/09/26		14TH0075-NRS 097-2-1_3	U18-0451	No	Yes	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.
Sofar Solar	HYD 6000-ES	Hybrid PV inverter grid-tied	Intertek	2019/07/16		190603089GZU-001	190603089GZU-001	No	Yes	
Sofar Solar	HYD 5000-ES	Hybrid PV inverter grid-tied	Intertek	2019/07/16		190603089GZU-001	190603089GZU-001	No	Yes	
Sofar Solar	HYD 4000-ES	Hybrid PV inverter grid-tied	Intertek	2019/07/16		190603089GZU-001	190603089GZU-001	No	Yes	
Sofar Solar	HYD 3600-ES	Hybrid PV inverter grid-tied	Intertek	2019/07/16		190603089GZU-001	190603089GZU-001	No	Yes	
Sofar Solar	HYD 3000-ES	Hybrid PV inverter grid-tied	Intertek	2019/07/16		190603089GZU-001	190603089GZU-001	No	Yes	
SolarEdge	SE 2200H	Grid-tied PV inverter	Primara	2016/12/06	2019/12/31	16PP115-09	16-084-01	Yes	No	Internal RCMU and RCD Type B required.
SolarEdge	SE 3000H	Grid-tied PV inverter	Primara	2016/12/06	2019/12/31	16PP115-09	16-084-01	Yes	No	Internal RCMU and RCD Type B required.
SolarEdge	SE 3500H	Grid-tied PV inverter	Primara	2016/12/06	2019/12/31	16PP115-09	16-084-01	Yes	No	Internal RCMU and RCD Type B required.
SolarEdge	SE 3680H	Grid-tied PV inverter	Primara	2016/12/06	2019/12/31	16PP115-09	16-084-01	Yes	No	Internal RCMU and RCD Type B required.
SolarEdge	SE 4000H	Grid-tied PV inverter	Primara	2016/12/06	2019/12/31	16PP115-09	16-084-01	Yes	No	Internal RCMU and RCD Type B required.
SolarEdge	SE 5000H	Grid-tied PV inverter	Primara	2016/12/06	2019/12/31	16PP115-09	16-084-01	Yes	No	Internal RCMU and RCD Type B required.
SolarEdge	SE 6000H	Grid-tied PV inverter	Primara	2016/12/06	2019/12/31	16PP115-09	16-084-01	Yes	No	Internal RCMU and RCD Type B required.
SolarEdge	SE 2200	Grid-tied PV inverter	Primara	2015/09/02	2019/12/31	11KFS055-15	15-101-01	Yes	No	
SolarEdge	SE 3000	Grid-tied PV inverter	Primara	2015/09/02	2019/12/31	11KFS055-15	15-101-01	Yes	No	
SolarEdge	SE 3300	Grid-tied PV inverter	Primara	2015/09/02	2019/12/31	11KFS055-15	15-101-01	Yes	No	
SolarEdge	SE 3500	Grid-tied PV inverter	Primara	2015/09/02	2019/12/31	11KFS055-15	15-101-01	Yes	No	
SolarEdge	SE 4000	Grid-tied PV inverter	Primara	2015/09/02	2019/12/31	11KFS055-15	15-101-01	Yes	No	
SolarEdge	SE 5000	Grid-tied PV inverter	Primara	2015/09/02	2019/12/31	11KFS055-15	15-101-01	Yes	No	
SolarEdge	SE 6000	Grid-tied PV inverter	Primara	2015/09/02	2019/12/31	11KFS055-15	15-101-01	Yes	No	
SolarEdge	SE 5000-RWS	Grid-tied PV inverter	Primara	2016/02/04	2019/12/31	15PP125-03	16-015-00	Yes	No	
SolarEdge	SE 6000-RWS	Grid-tied PV inverter	Primara	2016/02/04	2019/12/31	15PP125-03	16-015-00	Yes	No	
SolarEdge	SE 5000-ZAS	Grid-tied PV inverter	Primara	2016/02/04	2019/12/31	15PP125-03	16-015-00	Yes	No	
SolarEdge	SE 6000-ZAS	Grid-tied PV inverter	Primara	2016/02/04	2019/12/31	15PP125-03	16-015-00	Yes	No	
SolarEdge	SE25K	Grid-tied PV inverter	Primara	2015/08/05	2019/12/31	15PP010-22	15-152-00	Yes	No	
SolarEdge	SE27.6K	Grid-tied PV inverter	Primara	2015/08/05	2019/12/31	15PP010-22	15-152-00	Yes	No	
SolarEdge	SE4K	Grid-tied PV inverter	Bureau Veritas	2015/05/05	2019/12/31	10TH0222-NRS 097-2-1	U15-0146	Yes	No	
SolarEdge	SE5K	Grid-tied PV inverter	Bureau Veritas	2015/05/05	2019/12/31	10TH0222-NRS 097-2-1	U15-0146	Yes	No	
SolarEdge	SE7K	Grid-tied PV inverter	Bureau Veritas	2015/05/05	2019/12/31	10TH0222-NRS 097-2-1	U15-0146	Yes	No	
SolarEdge	SE8K	Grid-tied PV inverter	Bureau Veritas	2015/05/05	2019/12/31	10TH0222-NRS 097-2-1	U15-0146	Yes	No	
SolarEdge	SE9K	Grid-tied PV inverter	Bureau Veritas	2015/05/05	2019/12/31	10TH0222-NRS 097-2-1	U15-0146	Yes	No	
SolarEdge	SE10K	Grid-tied PV inverter	Bureau Veritas	2015/05/05	2019/12/31	10TH0222-NRS 097-2-1	U15-0146	Yes	No	
SolarEdge	SE12,5K	Grid-tied PV inverter	Bureau Veritas	2015/05/05	2019/12/31	10TH0222-NRS 097-2-1	U15-0146	Yes	No	
SolarEdge	SE15K	Grid-tied PV inverter	Bureau Veritas	2015/05/05	2019/12/31	10TH0222-NRS 097-2-1	U15-0146	Yes	No	
SolarEdge	SE16K	Grid-tied PV inverter	Bureau Veritas	2015/05/05	2019/12/31	10TH0222-NRS 097-2-1	U15-0146	Yes	No	

SolarEdge	SE17K	Grid-tied PV inverter	Bureau Veritas	2015/05/05	2019/12/31	10TH0222-NRS 097-2-1	U15-0146	Yes	No	
SolarEdge	SE25K	Grid-tied PV inverter	Bureau Veritas	2019/05/22		14TH0476-NRS 097-2-1_0	U19-0286	No	Yes	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.
SolarEdge	SE27.6K	Grid-tied PV inverter	Bureau Veritas	2019/05/22		14TH0476-NRS 097-2-1_0	U19-0286	No	Yes	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.
SolarEdge	SE50K	Grid-tied PV inverter	Bureau Veritas	2019/05/28		17TH0209-NRS 097-2-1_0	U19-0307	No	Yes	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.
SolarEdge	SE55K	Grid-tied PV inverter	Bureau Veritas	2019/05/28		17TH0209-NRS 097-2-1_0	U19-0307	No	Yes	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.
SolarEdge	SE75K	Grid-tied PV inverter	Bureau Veritas	2019/05/28		17TH0209-NRS 097-2-1_0	U19-0307	No	Yes	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.
SolarEdge	SE82.8K	Grid-tied PV inverter	Bureau Veritas	2019/05/28		17TH0209-NRS 097-2-1_0	U19-0307	No	Yes	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.
SolarWorld	Sunplug eco 1.2 TL1i	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0325	Yes	No	If used for multiphase phase installations above 3kW, the following requirements shall be complied with as stipulated in the Bureau Veritas Test Report 10TH0241-NRS097-2-1 "The single-phase embedded generators are not able to communicate with each other for disconnection. Therefor for connection above 3kW an external 3 phase monitoring will be necessary to realize an out-of-bound detection for all phases". Detail thereof must be provided to the City with the commissioning approval documentation. Alternatively, the inverter must only be used for multiphase installations ≤ 3kW.
SolarWorld	Sunplug eco 1.2 TL1x	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0325	Yes	No	
SolarWorld	Sunplug eco 2.0 TL1i	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0325	Yes	No	
SolarWorld	Sunplug eco 2.0 TL1x	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0325	Yes	No	
SolarWorld	Sunplug eco 3.0 TL1i	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0325	Yes	No	
SolarWorld	Sunplug eco 3.0 TL1x	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0325	Yes	No	
SolarWorld	Sunplug eco 3.6 TL1i	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0325	Yes	No	
SolarWorld	Sunplug eco 3.6 TL1x	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0325	Yes	No	
SolarWorld	Sunplug eco 4.2 TL1i	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0325	Yes	No	
SolarWorld	Sunplug eco 4.2 TL1x	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0325	Yes	No	
SolaX Power	SK-TL3000 E/C/R	Grid-tied PV inverter	TUV Rheinland	2015/05/15	2019/12/31	15082168002	AK 50311067 0001	Yes	No	
SolaX Power	SK-TL3700 E/C/R	Grid-tied PV inverter	TUV Rheinland	2015/05/15	2019/12/31	15082168002	AK 50311067 0001	Yes	No	
SolaX Power	SK-TL5000 E/C/R	Grid-tied PV inverter	TUV Rheinland	2015/05/15	2019/12/31	15082168002	AK 50311067 0001	Yes	No	
SolaX Power	SK-SU3000 E/C	Grid-tied PV inverter	TUV Rheinland	2015/05/15	2019/12/31	15082168002	AK 50311067 0001	Yes	No	
SolaX Power	SK-SU3700 E/C	Grid-tied PV inverter	TUV Rheinland	2015/05/15	2019/12/31	15082168002	AK 50311067 0001	Yes	No	
SolaX Power	SK-SU5000 E/C	Grid-tied PV inverter	TUV Rheinland	2015/05/15	2019/12/31	15082168002	AK 50311067 0001	Yes	No	
SolaX Power	SK-TL 3000 E/E-S/C/C-S/R/R-S	Grid-tied PV inverter	TÜV SÜD	2018/03/29		70.409.18.010.02-00	D 18 03 85769 043	No	Yes	
SolaX Power	SK-TL 3700 E/C/R	Grid-tied PV inverter	TÜV SÜD	2018/03/29		70.409.18.010.02-00	D 18 03 85769 043	No	Yes	
SolaX Power	SK-TL 5000 E/C/R	Grid-tied PV inverter	TÜV SÜD	2018/03/29		70.409.18.010.02-00	D 18 03 85769 043	No	Yes	
SolaX Power	SK-SU3000 E/E-S/C/C-S	Grid-tied PV inverter	TÜV SÜD	2018/03/29		70.409.18.010.02-00	D 18 03 85769 043	No	Yes	
SolaX Power	SK-SU3700 E/C	Grid-tied PV inverter	TÜV SÜD	2018/03/29		70.409.18.010.02-00	D 18 03 85769 043	No	Yes	
SolaX Power	SK-SU5000 E/C	Grid-tied PV inverter	TÜV SÜD	2018/03/29		70.409.18.010.02-00	D 18 03 85769 043	No	Yes	
SolaX Power	X3-30.0-T-N	Grid-tied PV inverter	TÜV SÜD	2017/08/04		70.409.17.128.02-01	D 17 08 85769 026	No	Yes	
SolaX Power	X3-30.0-T-D	Grid-tied PV inverter	TÜV SÜD	2017/08/04		70.409.17.128.02-01	D 17 08 85769 026	No	Yes	
SolaX Power	X3-36.0-T-N	Grid-tied PV inverter	TÜV SÜD	2017/08/04		70.409.17.128.02-01	D 17 08 85769 026	No	Yes	
SolaX Power	X3-36.0-T-D	Grid-tied PV inverter	TÜV SÜD	2017/08/04		70.409.17.128.02-01	D 17 08 85769 026	No	Yes	
SolaX Power	X1-Hybrid-5.0-D-E	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-5.0-N-E	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-4.6-D-E	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-4.6-N-E	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-3.7-D-E	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-3.7-N-E	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-3.0-D-E	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-3.0-N-E	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-5.0-D-C	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-5.0-N-C	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-4.6-D-C	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-4.6-N-C	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-3.7-D-C	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-3.7-N-C	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-3.0-D-C	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-3.0-N-C	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-5.0-D-I	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-5.0-N-I	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-4.6-D-I	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-4.6-N-I	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-3.7-D-I	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-3.7-N-I	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-3.0-D-I	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Hybrid-3.0-N-I	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Fit-3.7C	Grid-tied inverter	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Fit-3.7E	Grid-tied inverter	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Fit-3.7I	Grid-tied inverter	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Fit-4.6C	Grid-tied inverter	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Fit-4.6E	Grid-tied inverter	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Fit-4.6I	Grid-tied inverter	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Fit-5.0C	Grid-tied inverter	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Fit-5.0E	Grid-tied inverter	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X1-Fit-5.0I	Grid-tied inverter	TÜV SÜD	2019/07/31		70.409.19.191.01-00	D 08576900055	No	Yes	
SolaX Power	X3-Hybrid-5.0-D-C	Hybrid PV inverter grid-tied	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	No	Yes	Not intended for the use in plants > 100kVA
SolaX Power	X3-Hybrid-5.0-N-C	Hybrid PV inverter grid-tied	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	No	Yes	Not intended for the use in plants > 100kVA
SolaX Power	X3-Hybrid-5.0-D-E	Hybrid PV inverter grid-tied	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	No	Yes	Not intended for the use in plants > 100kVA
SolaX Power	X3-Hybrid-5.0-N-E	Hybrid PV inverter grid-tied	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	No	Yes	Not intended for the use in plants > 100kVA
SolaX Power	X3-Hybrid-6.0-D-C	Hybrid PV inverter grid-tied	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	No	Yes	Not intended for the use in plants > 100kVA
SolaX Power	X3-Hybrid-6.0-N-C	Hybrid PV inverter grid-tied	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	No	Yes	Not intended for the use in plants > 100kVA
SolaX Power	X3-Hybrid-6.0-D-E	Hybrid PV inverter grid-tied	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	No	Yes	Not intended for the use in plants > 100kVA
SolaX Power	X3-Hybrid-6.0-N-E	Hybrid PV inverter grid-tied	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	No	Yes	Not intended for the use in plants > 100kVA
SolaX Power	X3-Hybrid-8.0-D-C	Hybrid PV inverter grid-tied	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	No	Yes	Not intended for the use in plants > 100kVA
SolaX Power	X3-Hybrid-8.0-N-C	Hybrid PV inverter grid-tied	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	No	Yes	Not intended for the use in plants > 100kVA
SolaX Power	X3-Hybrid-8.0-D-E	Hybrid PV inverter grid-tied	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	No	Yes	Not intended for the use in plants > 100kVA
SolaX Power	X3-Hybrid-8.0-N-E	Hybrid PV inverter grid-tied	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	No	Yes	Not intended for the use in plants > 100kVA
SolaX Power	X3-Hybrid-10.0-D-C	Hybrid PV inverter grid-tied	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	No	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	No	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	No	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	No	Yes	Not intended for the use in plants > 100kVA
SolaX Power	X3-Fit-8.0C	Grid-tied inverter	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	No	Yes	Not intended for the use in plants > 100kVA
SolaX Power	X3-Fit-8.0E	Grid-tied inverter	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	No	Yes	Not intended for the use in plants > 100kVA
SolaX Power	X3-Fit-10.0C	Grid-tied inverter	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	No	Yes	Not intended for the use in plants > 100kVA
SolaX Power	X3-Fit-10.0E	Grid-tied inverter	Bureau Veritas	2018/10/18		SXP-18SE2165FCSHP	U18-0570	No	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	No	Yes	
Solis	Solis-mini-1000-4G	Grid-tied PV inverter	Dekra	2017/11/17		6018912.51	6018912.02AOC	No	Yes	
Solis	Solis-mini-1500-4G	Grid-tied PV inverter	Dekra	2017/11/17		6018912.51	6018912.02AOC	No	Yes	
Solis	Solis-mini-2000-4G	Grid-tied PV inverter	Dekra	2017/11/17		6018912.51	6018912.02AOC	No	Yes	
Solis	Solis-mini-2500-4G	Grid-tied PV inverter	Dekra	2017/11/17		6018912.51	6018912.02AOC	No	Yes	
Solis	Solis-mini-3000-4G	Grid-tied PV inverter	Dekra	2017/11/17		6018912.51	6018912.02AOC	No	Yes	
Solis	Solis-mini-3600-4G	Grid-tied PV inverter	Dekra	2017/11/17		6018912.51	6018912.02AOC	No	Yes	
Solis	Solis-1P1K-4G	Grid-tied PV inverter	Dekra	2017/11/10		6018912.50	6018912.01AOC	No	Yes	
Solis	Solis-1P1.5K-4G	Grid-tied PV inverter	Dekra	2017/11/10		6018912.50	6018912.01AOC	No	Yes	
Solis	Solis-1P2K-4G	Grid-tied PV inverter	Dekra	2017/11/10		6018912.50	6018912.01AOC	No	Yes	
Solis	Solis-1P2.5K-4G	Grid-tied PV inverter	Dekra	2017/11/10		6018912.50	6018912.01AOC	No	Yes	
Solis	Solis-1P2.5K2-4G	Grid-tied PV inverter	Dekra	2017/11/10		6018912.50	6018912.01AOC	No	Yes	
Solis	Solis-1P3K-4G-ST	Grid-tied PV inverter	Dekra	2017/11/10		6018912.50	6018912.01AOC	No	Yes	
Solis	Solis-1P3K-4G	Grid-tied PV inverter	Dekra	2017/11/10		6018912.50	6018912.01AOC	No	Yes	
Solis	Solis-1P3.6K-4G	Grid-tied PV inverter	Dekra	2017/11/10		6018912.50	6018912.01AOC	No	Yes	
Solis	Solis-1P4K-4G	Grid-tied PV inverter	Dekra	2017/11/10		6018912.50	6018912.01AOC	No	Yes	
Solis	Solis-1P4.6K-4G	Grid-tied PV inverter	Dekra	2017/11/10		6018912.50	6018912.01AOC	No	Yes	
Solis	Solis-20K	Grid-tied PV inverter	TÜV SÜD	2018/03/19		50128276 001	AK 50402840 0001	No	Yes	
Solis	Solis-25K	Grid-tied PV inverter	TÜV SÜD	2018/03/19		50128276 001	AK 50402840 0001	No	Yes	
Solis	Solis-30K	Grid-tied PV inverter	TÜV SÜD	2018/03/19		50128276 001	AK 50402840 0001	No	Yes	
Solis	Solis-40K	Grid-tied PV inverter	TÜV SÜD	2018/03/22		50131287 001	AK 50403257 0001	No	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	No	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	No	Yes	
Solis	Solis-3P6K-4G	Grid-tied PV inverter	TUV Rheinland	2018/08/24		50173799 001	AK 50416579 0001	No	Yes	
Solis	Solis-3P8K-4G	Grid-tied PV inverter	TUV Rheinland	2018/08/24		50173799 001	AK 50416579 0001	No	Yes	
Solis	Solis-3P9K-4G	Grid-tied PV inverter	TUV Rheinland	2018/08/24		50173799 001	AK 50416579 0001	No	Yes	
Solis	Solis-3P10K-4G	Grid-tied PV inverter	TUV Rheinland	2018/08/24		50173799 001	AK 50416579 0001	No	Yes	
Solis	Solis-3P12K-4G	Grid-tied PV inverter	TUV Rheinland	2018/08/24		50173799 001	AK 50416579 0001	No	Yes	
Solis	Solis-3P15K-4G	Grid-tied PV inverter	TUV Rheinland	2018/08/24		50173799 001	AK 50416579 0001	No	Yes	
Solis	Solis-3P17K-4G	Grid-tied PV inverter	TUV Rheinland	2018/08/24		50173799 001	AK 50416579 0001	No	Yes	
Solis	Solis-3P20K-4G	Grid-tied PV inverter	TUV Rheinland	2018/08/24		50173799 001	AK 50416579 0001	No	Yes	
Solis	Solis-RHI-3K-48ES	Hybrid PV inverter grid-tied	TUV Rheinland	2018/09/12		50173405 001	AK 50418189 0001	No	Yes	
Solis	Solis-RHI-3.6K-48ES	Hybrid PV inverter grid-tied	TUV Rheinland	2018/09/12		50173405 001	AK 50418189 0001	No	Yes	
Solis	Solis-RHI-4.6K-48ES	Hybrid PV inverter grid-tied	TUV Rheinland	2018/09/12		50173405 001	AK 50418189 0001	No	Yes	
Soltaro	SOL-10KW-3P	Hybrid PV inverter grid-tied	TÜV SÜD	2019/07/26		6429018047301A	D 104877 0003		Yes	
Steca Elektronik	StecaGrid 4200	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0323	Yes	No	If used for multiphase phase installations above 3kW, the following requirements shall be complied with as stipulated in the Bureau Veritas Test Report 10TH0241-NRS097-2-1 "The single-phase embedded generators are not able to communicate with each other for disconnection. Therefor for connection above 3kW an external 3 phase monitoring will be necessary to realize an out-of-bound detection for all phases". Detail thereof must be provided to the City with the commissioning approval documentation. Alternatively, the inverter must only be used for multiphase installations ≤ 3kW.
Steca Elektronik	StecaGrid 4200x	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0323	Yes	No	
Steca Elektronik	StecaGrid 3600	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0323	Yes	No	
Steca Elektronik	StecaGrid 3600x	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0323	Yes	No	
Steca Elektronik	StecaGrid 3010	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0323	Yes	No	
Steca Elektronik	StecaGrid 3010x	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0323	Yes	No	
Steca Elektronik	StecaGrid 3000	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0323	Yes	No	
Steca Elektronik	StecaGrid 2500	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0323	Yes	No	
Steca Elektronik	StecaGrid 2500x	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0323	Yes	No	
Steca Elektronik	StecaGrid 2300	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0323	Yes	No	
Steca Elektronik	StecaGrid 2300x	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0323	Yes	No	
Steca Elektronik	StecaGrid 2000	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0323	Yes	No	
Steca Elektronik	StecaGrid 2000x	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0323	Yes	No	
Steca Elektronik	StecaGrid 1800	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0323	Yes	No	
Steca Elektronik	StecaGrid 1800x	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0323	Yes	No	
Steca Elektronik	StecaGrid 1500	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0323	Yes	No	
Steca Elektronik	StecaGrid 1500x	Grid-tied PV inverter	Bureau Veritas	2015/08/19	2019/12/31	10TH0241-NRS 097-2-1	U15-0323	Yes	No	
Sungrow	SH5K	Hybrid PV inverter grid-tied	Dekra	2016/12/22	2019/12/31	6000500.5	6000500.01AOC	Yes	No	
Sungrow	SH5K-20	Hybrid PV inverter grid-tied	Dekra	2018/05/31		6025450.51	6025450.02AOC	No	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Sungrow	SG36KTL-M	Grid-tied PV inverter	TÜV SÜD	2018/03/26		704091708604-01	D180373342197	No	Yes	
Sungrow	SG60KTL	Grid-tied PV inverter	TÜV SÜD	2018/02/08		704091708605-01	D180173342198	No	Yes	
Sungrow	SG80KTL	Grid-tied PV inverter	Dekra	2018/07/11		6035428.50	6035428.01AOC	No	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	No	Yes	The maximum DC voltage is depended on PV array and may not exceed 1000V when this inverter is used.
Sunsynk	Synsynk-8K-SG01LP1	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2019/04/11		BL-SZ1910095-B01	BL-SZ1910095-B01	No	Yes	
Sunsynk	Synsynk-7.6K-SG01LP1	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2019/04/11		BL-SZ1910095-B01	BL-SZ1910095-B01	No	Yes	
Sunsynk	Synsynk-6K-SG01LP1	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2019/04/11		BL-SZ1910095-B01	BL-SZ1910095-B01	No	Yes	
Sunsynk	Synsynk-5K-SG01LP1	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2019/04/11		BL-SZ1910095-B01	BL-SZ1910095-B01	No	Yes	
Sunsynk	Synsynk-3.6K-SG01LP1	Hybrid PV inverter grid-tied	Shenzhen Balun Technology	2019/04/11		BL-SZ1910095-B01	BL-SZ1910095-B01	No	Yes	
TELE Haase Steuergerate	NA003	Network & system relay	Primara	2018/09/20		14PP035-12	18-315-00	No	Yes	Network and system grid protection voltage and frequency relay only.
Victron	MultiGrid 12/3000/120-50	Battery based PV inverter grid-tied	Primara	2017/11/20		16PP183-06_1	17-303-00	No	Yes	
Victron	MultiGrid 24/3000/70-50	Battery based PV inverter grid-tied	Primara	2017/11/20		16PP183-06_1	17-303-00	No	Yes	
Victron	MultiGrid 48/3000/35-50	Battery based PV inverter grid-tied	Primara	2017/11/20		16PP183-06_1	17-303-00	No	Yes	
Victron	MultiGrid - II 48/3000/35-32	Battery based PV inverter grid-tied	Primara	2018/10/02		17PP264-07_1	18-320-00	No	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	No	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	No	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	No	Yes	
Voltronic	InfiniSolar 3kW Plus xx	Hybrid PV inverter grid-tied	Eurofins	2015/07/14	2019/12/31	EFSH15051932-IE-01-L05	S3M21507-0033	Yes	No	'xx' would be 01 to 09, denote appearance and terminal difference

Voltronic	Maand	Hybrid PV inverter grid-tied	Bureau Veritas	2016/09/14	2019/12/31	PVZA160624N005	U16-0520	Yes	No	Note: The inverter has single-phase mains surveillance and is not able to communicate with each other to detect an out-of-bound voltage on all three phases. According to NRS 097-2-1 an external three phase mains surveillance unit is necessary for installations above 3 kW to detect an out-of-bound voltage condition on a three phase system. The inverter is intended to be used for single phase installations only.
Voltronic	InfiniSolar E 5.5kW	Hybrid PV inverter grid-tied	Bureau Veritas	2017/03/27	2019/12/31	PVZA170301N060	U17-0125	Yes	No	
Voltronic	InfiniSolar 10k	Hybrid PV inverter grid-tied	Bureau Veritas	2015/12/15	2019/12/31	PV151102N012-NRS 097-2-1	U15-0470	Yes	No	
Ziehl	UFR1001E relay	Network & system relay	Bureau Veritas	2018/06/07		11TH0501-NRS 097-2-1_1	U18-0308	No	Yes	Network and system grid protection voltage and frequency relay only.

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 information 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. NRS 097-2-1: 2010 type test certification on this list is accepted until 31 December 2019. The commissioned inverter settings shall be in accordance with the new NRS 097-2-1: 2017 version.
5. All the existing NRS097-2-1: 2010 type tested inverters/equipment on this list must be SANAS re-certified in accordance with NRS097-2-1: 2017 with effect from 1 January 2020, if the inverter/equipment is considered for an embedded generation application.
6. Type testing certifications for inverters that must be added to this list, shall be in accordance with latest NRS 097-2-1, currently 2017 version.
7. 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/ryno/vorms/Approved inverter and equipment ito NRS 097-2-1
2019 10 08