ENERGINET DK

List of PV suncell inverters complying with the requirements in TF 3.2.1

Manufacturer	Nationality	Designation	Power AC	No. of phases	Current per fase	Factory settings	Approval	Expiry	Firmware	TF 3.2.1	df/dt (ROCOF)	EN 50438-DK	VDE-AR-N-4105	CE-compliant	Energinet.dk file (Acadre)	Comments
	[Country]	[type]	[kW]	[no.]	[A]		[date]	[date]	[version]	[√]	[√]	[√]	[√]	[√]		
ABB Oy Drives	Finland	PVS300-TL-3300W-2	3.3	1	14.3	Denmark	27 March 2012	NTR	CSSIA006_0061	√	-	-	√	√	10/7230	If limited to max 3 kW it is done from the factory
Alpinengineering GmbH	Germany	Alpinsun Peak 3000	3	1	16	Denmark	15 February 2012	NTR	NET11_ENS_2.9	√	-	-	√	√	11/1705	
		Alpinsun Peak 3600	3.6	1	16	Denmark	15 February 2012	NTR	NET11_ENS_2.9	√	-	-	√	√	11/1705	
Altenergy Power Systems inc.	China	YC200-EU	0.22	1	1	Denmark	20 June 2012	NTR	-	√	-	-	√	√	12/1062	
Anhui EHE new Energy Tech Co Ldt	China	EHE-N1.5KTL	1.5	1	6.9	Denmark	3 October 2011	NTR	V11.10	√	√	√	-	√	11/1739	
		EHE-N2KTL	2	1	10	Denmark	3 October 2011	NTR	V11.10	√	√	√	-	√	11/1739	
		EHE-N2K5	2.5	1	11	Denmark	11 October 2011	NTR	V11.10	√	√	√	-	√	11/1739	
		EHE-N3KTL	3	1	15	Denmark	3 October 2011	NTR	V11.10	√	√	√	-	√	11/1739	
		EHE-N4KTL	4	1	16	Denmark	14 February 2012	NTR	V11.10	√	√	√	-	√	11/1879	Limited to max 16 A/phase or 3kW / 13A/phase in configuration software and protected by installer password
Aros Solar Technology	Italy	SIRIO EVO 1500	1.5	1	6.6	Denmark	31 January 2012	30 September 2012	02.00	√	-	-	√	√	10/5724	Expire date will be "NTR", when the documentation VDE-AR-N-4105 appendix F3 and F4 are received from the manufacture
		SIRIO EVO 2000	2	1	8.7	Denmark	31 January 2012	30 September 2012	02.00	√	-	-	√	√	10/5724	Expire date will be "NTR", when the documentation VDE-AR-N-4105 appendix F3 and F4 are received from the manufacture
		SIRIO EVO 3000	3	1	13	Denmark	31 January 2012	30 September 2012	02.00	√	-	-	√	√	10/5724	Expire date will be "NTR", when the documentation VDE-AR-N-4105 appendix F3 and F4 are received from the manufacture
		SOLIA 6000	6	3	8.7	Denmark	9 March 2012	NTR		√	-	-	√	√	10/5724	
		SIRIO 10000P	10	3	14.5	Denmark	31 January 2012	NTR		√	-	-	√	√	10/5724	
Beijing Kinglong New Energy Technology Co.,Ltd	China	KLNE Sunteams 1500	1.5	1	6.5	Denmark	2 January 2012	NTR		√	√	√	-	√	11/1714	
		KLNE Sunteams 2000	2	1	9	Denmark	2 January 2012	NTR		√	√	√	-	√	11/1714	
		KLNE Sunteams 3000	3	1	14	Denmark	2 January 2012	NTR		√	√	√	-	√	11/1714	
		KLNE Sunteams 10000	10	3	15	Denmark	24 April 2012	NTR		√	-	-	√	√	11/1714	If limited to max 6 kW it is done from the factory
		KLNE Sunteams 12000	12	3	18	Denmark	24 April 2012	NTR		√	-	-	√	√	11/1714	
		KLNE Sunteams 15000	15	3	22	Denmark	24 April 2012	NTR		√	-	-	√	√	11/1714	
		Solartec 1500	1.5	1	9	Denmark	14 May 2012	NTR	V5.03 & V8.13	√	√	√	-	√	11/1714	
		Solartec 2000	2	1	12	Denmark	14 May 2012	NTR	V5.03 & V8.13	√	√	√	-	√	11/1714	
		Solartec 2500	2.5	1	16	Denmark	14 May 2012	NTR	V5.03 & V8.13	√	√	√	-	√	11/1714	
		Solartec 3000	3	1	16	Denmark	14 May 2012	NTR	V5.03 & V8.13	√	√	√	-	√	11/1714	
		Solartec 3600	3.6	1	16	Denmark	14 May 2012	NTR	V5.03 & V8.13	√	√	√	-	√	11/1714	
Carlo Gavazzi	Italien	ISMG 1 45DE	3.8	1	14.3	Denmark	26 March 2012	NTR		√	-	-	√	√	11/1238	
		ISMG 1 45DE- PL3	2.99	1	13	Denmark	30 May 2012	NTR		√	-	-	√	√	11/1238	
Centrosolar AG	Germany	Powerstocc Excellent 3.0 DCS	3	1	13	Denmark	22 May 2012	NTR		√	-	-	√	√	11/2270	
		Powerstocc Excellent 3.6 DCS	3.6	1	15.7	Denmark	22 May 2012	NTR		√	-	-	√	√	11/2270	
		Powerstocc Excellent 4.2 DCS	4.2	3	6.1	Denmark	22 May 2012	NTR		√	-	-	√	√	11/2270	
		Powerstocc Excellent 5.5 DCS	5.5	3	8	Denmark	22 May 2012	NTR		√	-	-	√	√	11/2270	
		Powerstocc Excellent 7.0 DCS	7	3	10	Denmark	22 May 2012	NTR		√	-	-	√	√	11/2270	By factory selection "DK" limited to 6kW
		Powerstocc Excellent 7.0 AD	7	3	10	Denmark	22 May 2012	NTR		√	-	-	√	√	11/2270	By factory selection "DK" limited to 6kW
		Powerstocc Excellent 8.3 DCS	8.3	3	12	Denmark	22 May 2012	NTR		√	-	-	√	√	11/2270	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		Powerstocc Excellent 8.3 AD	8.3	3	12	Denmark	22 May 2012	NTR		√	-	-	√	√	11/2270	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		Powerstocc Excellent 10.1 DCS	10	3	14.6	Denmark	22 May 2012	NTR		√	-	-	√	√	11/2270	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		Powerstocc Excellent 10.1 AD	10	3	14.6	Denmark	22 May 2012	NTR		√	-	-	√	√	11/2270	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		Powerstocc Exellent 1200	1.6	1	7	Denmark	23 December 2011	NTR		√	-	-	√	√	11/2270	
		Powerstocc Exellent 2000	1.6	1	7	Denmark	23 December 2011	NTR	1.67	√	-	-	√	√	11/2270	
		Powerstocc Exellent 3000	2.8	1	12.1	Denmark	23 December 2011	NTR	1.67	√	-	-	√	√	11/2270	
		Powerstocc Exellent 4000	3.3	1	14.3	Denmark	23 December 2011	NTR	1.67	√	-	-	√	√	11/2270	
Danfoss Solar Inverters A/S	Denmark	ULX 1800	1.6	1	7	Denmark	23 December 2011	NTR	1.67	√	-	-	√	√	10/4857	
		ULX 3000	2.8	1	12.1	Denmark	23 December 2011	NTR	1.67	√	-	-	√	√	10/4857	
		ULX 3600	3.3	1	14.3	Denmark	23 December 2011	NTR	1.67	√	-	-	√	√	10/4857	
		TLX 6 k	6	3	9	Denmark	16 January 2012	NTR		√	-	-	√	√	10/4857	
		TLX 8 k	8	3	12	Denmark	16 January 2012	NTR		√	-	-	√	√	10/4857	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		TLX 10 k	10	3	15	Denmark	16 January 2012	NTR		√	-	-	√	√	10/4857	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		TLX 12.5 k	12.5	3	19	Denmark	16 January 2012	NTR		√	-	-	√	√	10/4857	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		TLX 15 k	15	3	22	Denmark	16 January 2012	NTR		√	-	-	√	√	10/4857	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		TLX+ 6k	6	3	9	Denmark	16 January 2012	NTR		√	-	-	√	√	10/4857	
		TLX+ 8k	8	3	12	Denmark	16 January 2012	NTR		√	-	-	√	√	10/4857	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		TLX+ 10k	10	3	15	Denmark	16 January 2012	NTR		√	-	-	√	√	10/4857	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		TLX+ 12.5k	12.5	3	19	Denmark	16 January 2012	NTR		√	-	-	√	√	10/4857	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		TLX+ 15k	15	3	22	Denmark	16 January 2012	NTR		√	-	-	√	√	10/4857	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		TLX Pro+ 6k	6	3	9	Denmark	16 January 2012	NTR		√	-	-	√	√	10/4857	
		TLX Pro+ 8k	8	3	12	Denmark	16 January 2012	NTR		√	-	-	√	√	10/4857	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		TLX Pro+ 10k	10	3	15	Denmark	16 January 2012	NTR		√	-	-	√	√	10/4857	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		TLX Pro+ 12.5k	12.5	3	19	Denmark	16 January 2012	NTR		√	-	-	√	√	10/4857	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		TLX Pro+ 15k	15	3	22	Denmark	16 January 2012	NTR		√	-	-	√	√	10/4857	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
DassTech	Korea	DSP-123K2	3	1	13.04	Denmark	06 March 2012	NTR		√	√	√	-	√	12/333	
Delta Energy Systems	Germany	SOLIVIA 2.5 EU G3	2.5	1	11.2	Denmark	2 January 2012	30 September 2012	2.50.23	√	-	-	√	√	11/275	Settings has to be Germany LVD
		SOLIVIA 3.0 EU G3	3	1	13.5	Denmark	2 January 2012	30 September 2012	2.50.23	√	-	-	√	√	11/275	Settings has to be Germany LVD
		SOLIVIA 3.3 EU G3	3.3	1	14.9	Denmark	2 January 2012	30 September 2012	2.50.23	√	-	-	√	√	11/275	Settings has to be Germany LVD
		SOLIVIA 2.5 EU G4 TR	2.5	1	11.2	Denmark	2 January 2012	NTR		√	-	-	√	√	11/275	
		SOLIVIA 3.0 EU G4 TR	3	1	13.5	Denmark	2 January 2012	NTR		√	-	-	√	√	11/275	
		SOLIVIA 3.3 EU G4 TR	3.3	1	14.9	Denmark	2 January 2012	NTR		√	-	-	√	√	11/275	
		SOLIVIA 11 EU G4 TR	11	3	15.9	Denmark	20 February 2012	NTR		√	-	-	√	√	11/275	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		SOLIVIA 15 EU G4 TL	15	3	21.8	Denmark	20 February 2012	NTR		√	-	-	√	√	11/275	
		SOLIVIA 20 EU G4 TL	20	3	28.9	Denmark	20 February 2012	NTR		√	-	-	√	√	11/275	
Diehl AKO	Germany	PLATINUM 2100H	2.1	1	10.5	Denmark	09 March 2012	NTR		√	-	-	√	√	11/2202	
		PLATINUM 3000H	3	1	15.2	Denmark	09 March 2012	NTR		√	-	-	√	√	11/2202	
		PLATINUM 3801 TLD	3.33	1	14.3	Denmark	24 February 2012	NTR		√	-	-	√	√	11/2202	
		PLATINUM 3800 TLD	3.68	1	16	Denmark	24 February 2012	NTR		√	-	-	√	√	11/2202	
		PLATINUM 13000 TLD	12.36	3	17.8	Denmark	23 January 2012	NTR		√	-	-	√	√	11/2202	
		PLATINUM 16000 TLD	15	3	21.7	Denmark	23 January 2012	NTR		√	-	-	√	√	11/2202	
		PLATINUM 19000 TLD	18	3	26	Denmark	23 January 2012	NTR		√	-	-	√	√	11/2202	
		PLATINUM 22001 TLD	20	3	28.9	Denmark	23 January 2012	NTR		√	-	-	√	√	11/2202	
		PLATINUM 22000 TLD	20.7	3	29.9	Denmark	23 January 2012	NTR		√	-	-	√	√	11/2202	
		PLATINUM 11000 TL3R	10	3	14.5	Denmark	30 May 2012	NTR	RFP-802D010-29-14-S	√	-	-	√	√	11/2202	
		PLATINUM 13000 TL3R	12.4	3	18	Denmark	30 May 2012	NTR	RFP-802D013-29-14-S	√	-	-	√	√	11/2202	
		PLATINUM 17000 TL3R	16.5	3	23.9	Denmark	30 May 2012	NTR	RFP-802D017-29-14-S	√	-	-	√	√	11/2202	
		PLATINUM 20000 TL3R	19.2	3	27.8	Denmark	30 May 2012	NTR	RFP-802D020-29-14-S	√	-	-	√	√	11/2202	

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List of PV suncell inverters complying with the requirements in TF 3.2.1

Manufacturer	Nationality	Designation	Power AC	No. of phases	Current per fase	Factory settings	Approval	Expiry	Firmware	TF 3.2.1	df/dt (ROCOF)	EN 50438-DK	VDE-AR-N-4105	CE-compliant	Energinet.dk file (Acadre)	Comments
	[Country]	[type]	[kW]	[no.]	[A]		[date]	[date]	[version]	[√]	[√]	[√]	[√]	[√]		
Effekta Regeltechnik GmbH	Germany	ES 2200	2	1	8.7	Denmark	28 March 2012	NTR		√	-	-	√	√	12/634	
		ES 3300	3	1	13	Denmark	28 March 2012	NTR		√	-	-	√	√	12/634	
		ES 5000-2K	5	1	8.7	Denmark	17 April 2012	NTR		√	-	-	√	√	12/634	Limited to max 2 kW in configuration software and protected by installer password
		ES 5000-3K	5	1	13	Denmark	17 April 2012	NTR		√	-	-	√	√	12/634	Limited to max 3 kW in configuration software and protected by installer password
Eltek Renewable	Norge	Theia 2.0HE-t	2	1	9	Denmark	01 May 2012	NTR		√	-	-	√	√	12/792	
		Theia 2.9HE-t	2.9	1	13	Denmark	01 May 2012	NTR		√	-	-	√	√	12/792	
		Theia 3.8HE-t	3.8	1	16	Denmark	07 May 2012	NTR		√	-	-	√	√	12/792	Limited to max 16 A/phase in configuration software and protected by installer password
		Theia 4.4HE-t	4.4	1	16	Denmark	07 May 2012	NTR		√	-	-	√	√	12/792	Limited to max 16 A/phase in configuration software and protected by installer password
Enecsys	England	SMI-D480W-60	0.45	1	1	Denmark	20 March 2012	NTR		√	-	-	√	√	11/1836	
Eversol	China	EVERSOL TL1500	1.5	1	8.8	Denmark	22 March 2012	NTR		√	√	√	-	√	12/583	
		EVERSOL TL2000	2	1	11.8	Denmark	22 March 2012	NTR		√	√	√	-	√	12/583	
		EVERSHINE TL3000	3	1	15	Denmark	26 March 2012	NTR		√	√	√	-	√	12/583	
		EVERSOL TLC10K	10	3	16	Denmark	23 April 2012	NTR		√	√	√	-	√	12/583	
		EVERSOL TLC12K	12	3	19.2	Denmark	23 April 2012	NTR		√	√	√	-	√	12/583	
		EVERSOL TLC15K	15	3	24	Denmark	23 April 2012	NTR		√	√	√	-	√	12/583	
		EVERSOL TLC17K	17	3	25.8	Denmark	23 April 2012	NTR		√	√	√	-	√	12/583	
Fronius	Austria	IG TL 3.0	3	1	13	Denmark	10 January 2012	NTR		√	-	-	√	√	11/671	
		IG TL 3.6	3.6	1	16	Denmark	10 January 2012	NTR		√	-	-	√	√	11/671	
		IG Plus 25V-1	2.6	1	11.3	Denmark	4 January 2012	NTR		√	-	-	√	√	12/88	
		IG Plus 30V-1	3	1	13	Denmark	4 January 2012	NTR		√	-	-	√	√	12/88	
		IG Plus 35V-1	3.5	1	15.2	Denmark	4 January 2012	NTR		√	-	-	√	√	12/88	
		IG Plus 60V-2	6	2	13	Denmark	16 March 2012	NTR		√	-	-	√	√	12/88	
		IG Plus 70V-2	6.5	2	13	Denmark	30 March 2012	NTR		√	-	-	√	√	12/88	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		IG Plus 100V-3	8	3	11.6	Denmark	4 January 2012	NTR		√	-	-	√	√	12/88	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		IG Plus 120V-3	10	3	14.5	Denmark	4 January 2012	NTR		√	-	-	√	√	12/88	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		IG Plus 150V-3	12	3	17.4	Denmark	4 January 2012	NTR		√	-	-	√	√	12/88	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		CL 36.0	36	3	52.2	Denmark	31 January 2012	NTR		√	-	-	√	√	12/88	
		CL 48.0	48	3	69.6	Denmark	31 January 2012	NTR		√	-	-	√	√	12/88	
		CL 60.0	60	3	87	Denmark	31 January 2012	NTR		√	-	-	√	√	12/88	
GESolar	China	GES-3K3TL	3	1	13	Denmark	13 December 2011	NTR		√	√	√	-	√	11/2463	
GoodWE	China	GW1500-SS	1.5	1	8	Denmark	07 March 2012	NTR		√	√	√	-	√	12/471	
		GW2000-SS	2	1	10	Denmark	07 March 2012	NTR		√	√	√	-	√	12/471	
		GW3000-SS	3	1	15	Denmark	07 March 2012	NTR		√	√	√	-	√	12/471	
		GW10K-DT	10	3	17	Denmark	21 May 2012	NTR		√	√	√	-	√	12/471	
		GW12K-DT	12	3	19	Denmark	21 May 2012	NTR		√	√	√	-	√	12/471	
		GW15K-DT	15	3	25	Denmark	21 May 2012	NTR		√	√	√	-	√	12/471	
		GW17K-DT	17	3	25	Denmark	21 May 2012	NTR		√	√	√	-	√	12/471	
Guangzhou Sanjing Electric CO., LTD	China	Sununo-TL 1.5K	1.65	1	8.5	Denmark	2 February 2012	NTR		√	√	√	-	√	11/2373	
		Sununo-TL 3KA	3	1	15	Denmark	2 February 2012	NTR		√	√	√	-	√	11/2373	
IBC Solar AG	Germany	IBC Servermaster 1650	1.6	1	7	Denmark	16 April 2012	NTR		√	-	-	√	√	12/590	
		IBC ServerMaster 2750	2.8	1	12.1	Denmark	16 April 2012	NTR		√	-	-	√	√	12/590	
		IBC ServerMaster 3300	3.3	1	14.3	Denmark	16 April 2012	NTR		√	-	-	√	√	12/590	
		IBC Servermaster 6000TL +	6	3	9	Denmark	09 March 2012	NTR		√	-	-	√	√	12/590	
		IBC Servermaster 6000TL Pro +	6	3	9	Denmark	09 March 2012	NTR		√	-	-	√	√	12/590	
		IBC Servermaster 8000TL	8	3	12	Denmark	09 March 2012	NTR		√	-	-	√	√	12/590	
		IBC Servermaster 8000TL +	8	3	12	Denmark	09 March 2012	NTR		√	-	-	√	√	12/590	
		IBC Servermaster 8000TL Pro +	8	3	12	Denmark	09 March 2012	NTR		√	-	-	√	√	12/590	
		IBC Servermaster 10000TL	10	3	15	Denmark	09 March 2012	NTR		√	-	-	√	√	12/590	
		IBC Servermaster 10000TL +	10	3	15	Denmark	09 March 2012	NTR		√	-	-	√	√	12/590	
		IBC Servermaster 10000TL Pro +	10	3	15	Denmark	09 March 2012	NTR		√	-	-	√	√	12/590	
		IBC Servermaster 12500TL	12.5	3	19	Denmark	09 March 2012	NTR		√	-	-	√	√	12/590	
		IBC Servermaster 12500TL +	12.5	3	19	Denmark	09 March 2012	NTR		√	-	-	√	√	12/590	
		IBC Servermaster 12500TL Pro+	12.5	3	19	Denmark	09 March 2012	NTR		√	-	-	√	√	12/590	
		IBC Servermaster 15000TL	15	3	22	Denmark	09 March 2012	NTR		√	-	-	√	√	12/590	
		IBC Servermaster 15000TL+	15	3	22	Denmark	09 March 2012	NTR		√	-	-	√	√	12/590	
		IBC Servermaster 15000TL Pro+	15	3	22	Denmark	09 March 2012	NTR		√	-	-	√	√	12/590	
Involar	China	MAC 250	0.235	1	1.02	Denmark	10 January 2012	NTR		√	√	√	-	√	11/1939	
Kaco	Germany	Powador 3200	2.6	1	11.3	Denmark	31 May 2012	NTR		√	-	-	√	√	11/1869	
		Powador 4400	3.6	1	15.6	Denmark	31 May 2012	NTR		√	-	-	√	√	11/1869	
		Powador 2002	1.65	1	7.2	Denmark	31 May 2012	NTR		√	-	-	√	√	11/1869	
		Powador 3002	2.5	1	10.9	Denmark	31 May 2012	NTR		√	-	-	√	√	11/1869	
		Powador 4202	3.5	1	15.2	Denmark	31 May 2012	NTR		√	-	-	√	√	11/1869	
		Powador 10.0 TL3	9.0	3	13.0	Denmark	31 January 2012	NTR		√	-	-	√	√	11/1869	
		Powador 12.0 TL3	10.0	3	14.5	Denmark	31 January 2012	NTR		√	-	-	√	√	11/1869	
		Powador 14.0 TL3	12.5	3	18.1	Denmark	31 January 2012	NTR		√	-	-	√	√	11/1869	
KM Solar	China	CPS SC10KTL-0	10	3	15.2	Denmark	23 March 2012	NTR		√	√	√	-	√	11/2139	
Kostal	Germany	Piko 3.0	3	1	13	Denmark	3 January 2012	NTR		√	-	-	√	√	11/1239	
		Piko 3.6	3.6	1	15.7	Denmark	3 January 2012	NTR		√	-	-	√	√	11/1239	
		Piko 4.2	4.2	3	6.1	Denmark	3 January 2012	NTR		√	-	-	√	√	11/1239	
		Piko 5.5	5.5	3	8	Denmark	3 January 2012	NTR		√	-	-	√	√	11/1239	
		Piko 7.0	7	3	10	Denmark	26 April 2012	NTR		√	-	-	√	√	11/1239	By factory selection "DK" limited to 6kW
		Piko 7.0 AD	7	3	10	Denmark	26 April 2012	NTR		√	-	-	√	√	11/1239	By factory selection "DK" limited to 6kW
		Piko 8.3	8.3	3	12	Denmark	3 January 2012	NTR		√	-	-	√	√	11/1239	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		Piko 8.3 AD	8.3	3	12	Denmark	3 January 2012	NTR		√	-	-	√	√	11/1239	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		Piko 10.1	10	3	14.6	Denmark	3 January 2012	NTR		√	-	-	√	√	11/1239	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		Piko 10.1 AD	10	3	14.6	Denmark	3 January 2012	NTR		√	-	-	√	√	11/1239	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
LUXRA	Germany	Luxra SK-L 3000	3	1	13	Denmark	3 January 2012	NTR		√	-	-	√	√	11/2464	
		Luxra SK-L 3600	3.6	1	15.7	Denmark	3 January 2012	NTR		√	-	-	√	√	11/2464	
		Luxra SK-L 4200	4.2	3	6.1	Denmark	3 January 2012	NTR		√	-	-	√	√	11/2464	
		Luxra SK-L 5500	5.5	3	8	Denmark	3 January 2012	NTR		√	-	-	√	√	11/2464	

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List of PV suncell inverters complying with the requirements in TF 3.2.1

Manufacturer	Nationality	Designation	Power AC	No. of phases	Current per fase	Factory settings	Approval	Expiry	Firmware	TF 3.2.1	df/dt (ROCOF)	EN 50438-DK	VDE-AR-N-4105	CE-compliant	Energinet.dk file (Acadre)	Comments
	[Country]	[type]	[kW]	[no.]	[A]		[date]	[date]	[version]	[√]	[√]	[√]	[√]	[√]		
		Luxra SK-L 8300	8.3	3	12	Denmark	3 January 2012	NTR		√	-	-	√	√	11/2464	
		Luxra SK-L 10100	10	3	14.6	Denmark	3 January 2012	NTR		√	-	-	√	√	11/2464	
Mastervolt International B.V.	Holland	SunMaster XS2000	1.5	1	8	Denmark	8 February 2012	NTR		√	√	√	-	√	11/2506	
		SunMaster XS3200	2.5	1	13	Denmark	8 February 2012	NTR		√	√	√	-	√	11/2506	
		SunMaster XS4300	3.3	1	15	Denmark	8 February 2012	NTR		√	√	√	-	√	11/2506	
		XL 3301 DEN power module	3.3	1	15	Denmark	8 February 2012	NTR		√	√	√	-	√	11/1739	
		CS15TL	15	3	24	Denmark	8 February 2012	NTR		√	√	√	-	√	11/1739	
		CS20TL	20	3	32	Denmark	8 February 2012	NTR		√	√	√	-	√	11/1739	
		CS15TL RP	15	3	24	Denmark	8 February 2012	NTR		√	√	√	-	√	11/1739	
		CS20TL RP	20	3	32	Denmark	8 February 2012	NTR		√	√	√	-	√	11/1739	
		ES3.6TL	3.6	1	16	Denmark	27 April 2012	NTR		√	-	-	√	√	11/2506	
Mitsubishi Electric Ltd	Germany	PV-S2600	2.9	1	11.3	Denmark	30 May 2012	NTR	4.01/ 4.05	√	-	-	√	√	12/913	
		PV-S3200	3.2	1	13.9	Denmark	30 May 2012	NTR	4.01/ 4.05	√	-	-	√	√	12/913	
Ningbo Ginlong Technologies Co, Ltd	China	Ginlong GCI-2K	2	1	8.7	Denmark	25 January 2012	NTR		√	√	√	-	√	11/1939	
Omron Electronics AB	Sweden	KP100L-OD-EU	10	3	14.5	Denmark	2 March 2012	NTR		√	-	-	√	√	11/1703	Limited to 6kWp by factory setting for DK by request
Power-One AG	Germany	PVI-3.0-TL-OUTD	3	1	14.5	Denmark	15 March 2012	NTR		√	-	-	√	√	12/862	
		PVI-10.0-TL-OUTD	10	3	16.6	Denmark	15 March 2012	NTR		√	-	-	√	√	12/862	
		PVI-12.5-TL-OUTD	12.5	3	20	Denmark	15 March 2012	NTR		√	-	-	√	√	12/862	
		TRIO-20.0-TL	20	3	33	Denmark	15 March 2012	NTR		√	-	-	√	√	12/862	
		TRIO-27.6-TL	27.6	3	45	Denmark	15 March 2012	NTR		√	-	-	√	√	12/862	
REFUsol GmbH	Germany	802R008	8.25	3	12	Denmark	23 February 2012	NTR		√	-	-	√	√	12/442	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		802R010	10	3	14.5	Denmark	22 February 2012	NTR		√	-	-	√	√	12/442	
		802R013	12.4	3	18	Denmark	22 February 2012	NTR		√	-	-	√	√	12/442	
		802R017	16.5	3	23.9	Denmark	22 February 2012	NTR		√	-	-	√	√	12/442	
		802R020	19.2	3	27.8	Denmark	22 February 2012	NTR		√	-	-	√	√	12/442	
Sarachat Energy	China	ZZ-ZB 2.0	2	1	8.7	Denmark	12 April 2012	NTR		√	√	√	-	√	11/1422	
		ZZ-ZB 3.0	3	1	13	Denmark	12 April 2012	NTR		√	√	√	-	√	11/1422	
		ZZ-ZB 3.7	3.7	1	16	Denmark	12 April 2012	NTR		√	√	√	-	√	11/1422	
		ZZ-ZB 5.0	5	2	10.9	Denmark	12 April 2012	NTR		√	√	√	-	√	11/1422	
		ZZ-ZB 6.0	6	2	13	Denmark	12 April 2012	NTR		√	√	√	-	√	11/1422	
		TLS-ZB 5.0	5	3	7.2	Denmark	12 April 2012	NTR		√	√	√	-	√	11/1422	
		TLS-ZB 6.0	6	3	8.7	Denmark	12 April 2012	NTR		√	√	√	-	√	11/1422	
		TLS-ZB 7.0	7	3	10.1	Denmark	12 April 2012	NTR		√	√	√	-	√	11/1422	
		TLS-ZB 8.0	8	3	11.6	Denmark	12 April 2012	NTR		√	√	√	-	√	11/1422	
		TLS-ZB 9.0	9	3	13	Denmark	12 April 2012	NTR		√	√	√	-	√	11/1422	
		TLS-ZB 10.0	10	3	14.5	Denmark	12 April 2012	NTR		√	√	√	-	√	11/1422	
		TLS-ZB 11.0	11	3	16	Denmark	12 April 2012	NTR		√	√	√	-	√	11/1422	
Schüco International KG	Germany	SGI 9k	9	3		Denmark	20 June 2012	NTR	ARM V1.26, AC 1.20 DC 1.24	√	-	-	√	√	11/274	
		SGI 10k	10	3		Denmark	20 June 2012	NTR	ARM V1.26, AC 1.20 DC 1.24	√	-	-	√	√	11/274	
		SGI 12k	12.5	3		Denmark	20 June 2012	NTR	ARM V1.26, AC 1.20 DC 1.24	√	-	-	√	√	11/274	
		SGI 13.5k	13.5	3	19.5	Denmark	20 June 2012	NTR	ARM V1.26, AC 1.14 DC 1.07	√	-	-	√	√	11/274	
		SGI 15k	15	3	21.7	Denmark	20 June 2012	NTR	ARM V1.26, AC 1.14 DC 1.24	√	-	-	√	√	11/274	
		SGI 25k-02 Home	25	3		Denmark	20 June 2012	NTR	ARM V1.26, AC 1.14 DC 1.24	√	-	-	√	√	11/274	
		SGI 30k-02 Home	30	3	47.7	Denmark	14 May 2012	NTR	ARM V1.26, AC 1.14 DC 1.24	√	-	-	√	√	11/274	
		SGI 33k-02 Home	33	3	48.3	Denmark	14 May 2012	NTR	ARM V1.26, AC 1.14 DC 1.24	√	-	-	√	√	11/274	
		SGI 2000plus-02	2	1	10.4	Denmark	20 June 2012	NTR	ARM V4.70 DSP V4.70	√	-	-	√	√	11/274	
		SGI 2500plus-02	2.5	1	12.4	Denmark	20 June 2012	NTR	ARM V4.70 DSP V4.70	√	-	-	√	√	11/274	
		SGI 3000plus-02	3	1	14.3	Denmark	20 June 2012	NTR	ARM V4.70 DSP V4.70	√	-	-	√	√	11/274	
		SGI 1500Tplus-02	1.5	1	1.65	Denmark	14 May 2012	NTR	ARM V4.70 DSP V4.70	√	-	-	√	√	11/274	
		SGI 2500Tplus-02	2.5	1	12.5	Denmark	14 May 2012	NTR	ARM V4.70 DSP V4.70	√	-	-	√	√	11/274	
		SGI 3500Tplus-02	3.5	1	15.7	Denmark	14 May 2012	NTR	ARM V4.70 DSP V4.70	√	-	-	√	√	11/274	
		SB 2000HF-30	2	1	8.7	Denmark	20 February 2012	NTR		√	-	-	√	√	10/6898	
		SB 2500HF-30	2.5	1	10.9	Denmark	24 February 2012	NTR		√	-	-	√	√	10/6898	
		SB 3000HF-30	3	1	13	Denmark	20 February 2012	NTR		√	-	-	√	√	10/6898	
Shenzhen Growatt New Energy Co., LtD	China	Growatt 1500	1.6	1	6.9	Denmark	1 February 2012	NTR		√	√	√	-	√	11/2373	
		Growatt 2000	2	1	8.7	Denmark	1 February 2012	NTR		√	√	√	-	√	11/2373	
		Growatt 3000	2.9	1	12.4	Denmark	1 February 2012	NTR		√	√	√	-	√	11/2373	
		Growatt 10000 UE	10	3	14.4	Denmark	26 April 2012	NTR		√	√	√	-	√	11/2373	
		Growatt 12000 UE	12	3	17.5	Denmark	26 April 2012	NTR		√	√	√	-	√	11/2373	
		Growatt 18000 UE	18	3	26	Denmark	26 April 2012	NTR		√	√	√	-	√	11/2373	
		Growatt 20000 UE	20	3	29	Denmark	26 April 2012	NTR		√	√	√	-	√	11/2373	
Shenzhen INVT Electric Co. Ltd	China	iMars BG1K5TL	1.5	1	7.5	Denmark	01 June 2012	NTR		√	√	√	-	√	12/920	
		iMars BG2K2TL	2.2	1	11	Denmark	01 June 2012	NTR		√	√	√	-	√	12/920	
		iMars BG3KTL	3	1	15	Denmark	01 June 2012	NTR		√	√	√	-	√	12/920	
Shenzhen JingFuYuan Tech Co., Ltd	China	SOLTEKNIK-TL3000	3	1	13	Denmark	20 February 2012	NTR		√	√	√	-	√	11/2290	
		JSI-1500TL	1.5	1	7.9	Denmark	06 June 2012	NTR	V1.1	√	√	√	-	√	11/2290	
		JSI-2000TL	2	1	10.5	Denmark	12 March 2012	NTR		√	√	√	-	√	12/593	
		JSI-3000TL	3	1	13	Denmark	1 January 2011	NTR		√	√	√	-	√	12/593	
		JSI-3600TL	3.6	1	15.7	Denmark	12 March 2012	NTR		√	√	√	-	√	12/593	
		SunTwins3300TL	3.3	1	14.3	Denmark	06 June 2012	NTR	V1.4	√	√	√	-	√	11/2290	
Sinodan Solar	China	Macsol-TL1.5k	1.5	1	6.5	Denmark	11 April 2012	NTR		√	√	√	-	√	12/691	
		Macsol-TL2K	2	1	8.7	Denmark	11 April 2012	NTR		√	√	√	-	√	12/691	
		Macsol-TL3k	3	1	13	Denmark	11 April 2012	NTR		√	√	√	-	√	12/691	
SMA Solar Technology AG	Germany	SB 1200	1.2	1	5.2	Denmark	20 February 2012	NTR		√	-	-	√	√	10/6898	
		SB 1300TL-10	1.3	1	5.7	Denmark	12 June 2012	NTR	4.00	√	-	-	√	√	10/6898	
		SB 1700	1.7	1	7.4	Denmark	20 February 2012	NTR		√	-	-	√	√	10/6898	
		SB 1600TL-10	1.6	1	7	Denmark	24 February 2012	NTR		√	-	-	√	√	10/6898	
		SB 2100TL	2.1	1	9.1	Denmark	20 February 2012	NTR		√	-	-	√	√	10/6898	
		SB 2000HF-30	2	1	8.7	Denmark	20 February 2012	NTR		√	-	-	√	√	10/6898	
		SB 2500HF-30	2.5	1	10.9	Denmark	24 February 2012	NTR		√	-	-	√	√	10/6898	
		SB3000HF-30	3	1	13	Denmark	20 February 2012	NTR		√	-	-	√	√	10/6898	
		SB 2500TLST-21	2.5	1	10.9	Denmark	12 June 2012	NTR	2.00	√	-	-	√	√	10/6898	
		SB 3000TLST-21	3	1	13.1	Denmark	12 June 2012	NTR	2.00	√	-	-	√	√	10/6898	

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List of PV suncell inverters complying with the requirements in TF 3.2.1

Manufacturer	Nationality	Designation	Power AC	No. of phases	Current per fase	Factory settings	Approval	Expiry	Firmware	TF 3.2.1	df/dt (ROCOF)	EN 50438-DK	VDE-AR-N-4105	CE-compliant	Energinet.dk file (Acadre)	Comments
	[Country]	[type]	[kW]	[no.]	[A]		[date]	[date]	[version]	[√]	[√]	[√]	[√]	[√]		
		SB 2500	2.5	1	11	Denmark	20 February 2012	NTR		√	-	-	√	√	10/6898	
		SB 3000	3	1	13	Denmark	20 February 2012	NTR		√	-	-	√	√	10/6898	
		SB 3000TL-21	3	1	13	Denmark	20 February 2012	NTR		√	-	-	√	√	10/6898	
		SB 3300-11	3.6	1	15.7	Denmark	20 February 2012	NTR		√	-	-	√	√	10/6898	
		STP 8000TL-10	8	3	11.5	Denmark	24 February 2012	NTR		√	-	-	√	√	10/6898	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		STP 10000TL-10	10	3	14.4	Denmark	24 February 2012	NTR		√	-	-	√	√	10/6898	
		STP 12000TL-10	12	3	17.3	Denmark	24 February 2012	NTR		√	-	-	√	√	10/6898	
		STP 15000TL-10	15	3	21.7	Denmark	24 February 2012	NTR		√	-	-	√	√	10/6898	
		STP 17000TL-10	17	3	24.5	Denmark	24 February 2012	NTR		√	-	-	√	√	10/6898	
		STP 15000TLEE-10	15	3	21.7	Denmark	12 June 2012	NTR	1.00	√	-	-	√	√	10/6898	
		STP 2000TLEE-10	20	3	29	Denmark	12 June 2012	NTR	1.00	√	-	-	√	√	10/6898	
		STP 15000TLHE-10	15	3	21.7	Denmark	12 June 2012	NTR	1.00	√	-	-	√	√	10/6898	
		STP 20000TLHE-10	20	3	28.9	Denmark	21 December 2011	NTR		√	-	-	√	√	10/6898	
SolarEdge Technologies	Israel	SE3000	3	1	13	Denmark	23 January 2012	NTR		√	√	√	-	√	10/6879	
		SE3300	3.3	1	14.3	Denmark	23 January 2012	NTR		√	√	√	-	√	10/6879	
		SE3500	3.5	1	15.2	Denmark	23 January 2012	NTR		√	√	√	-	√	10/6879	
		SE4000-16A limited	4	1	16	Denmark	23 January 2012	NTR		√	√	√	-	√	10/6879	Limited to max 16 A/phase
		SE7k	7	3	11.5	Denmark	23 January 2012	NTR		√	√	√	-	√	10/6879	Limited to max 6 kW using firmware code 34 "Denmark Residential"
		SE8k	8	3	13.5	Denmark	23 January 2012	NTR		√	√	√	-	√	10/6879	Limited to max 6 kW using firmware code 34 "Denmark Residential"
		SE9k	9	3	15.5	Denmark	23 January 2012	NTR		√	√	√	-	√	10/6879	Limited to max 6 kW using firmware code 34 "Denmark Residential"
		SE10k	10	3	17.5	Denmark	23 January 2012	NTR		√	√	√	-	√	10/6879	Limited to max 6 kW using firmware code 34 "Denmark Residential"
		SE10.5k	10.5	3	18.5	Denmark	23 January 2012	NTR		√	√	√	-	√	10/6879	Limited to max 6 kW using firmware code 34 "Denmark Residential"
		SE12k	12	3	19	Denmark	23 January 2012	NTR		√	√	√	-	√	10/6879	Limited to max 6 kW using firmware code 34 "Denmark Residential"
		SE12.5k	12.5	3	19.5	Denmark	23 January 2012	NTR		√	√	√	-	√	10/6879	Limited to max 6 kW using firmware code 34 "Denmark Residential"
SolarWorld	Germany	SB 2000HF-30	2	1	8.7	Denmark	20 February 2012	NTR		√	-	-	√	√	10/6898	
		SB 2500HF-30	2.5	1	10.9	Denmark	24 February 2012	NTR		√	-	-	√	√	10/6898	
		SB3000HF-30	3	1	13	Denmark	20 February 2012	NTR		√	-	-	√	√	10/6898	
		SolarWorld Piko 4.2	4.2	3	6.1	Denmark	3 January 2012	NTR		√	-	-	√	√	11/1239	
		SolarWorld Piko 5.5	5.5	3	8	Denmark	3 January 2012	NTR		√	-	-	√	√	11/1239	
		SolarWorld Piko 8.3	8.3	3	12	Denmark	3 January 2012	NTR		√	-	-	√	√	11/1239	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		SolarWorld Piko 10.1	10	3	14.6	Denmark	3 January 2012	NTR		√	-	-	√	√	11/1239	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
Solutronic AG	Germany	SolPlus 25	2.5	1	8.7	Denmark	2 April 2012	NTR		√	-	-	√	√	11/1185	
		SolPlus 35-DK	3	1	12.5	Denmark	2 April 2012	NTR		√	-	-	√	√	11/1185	Limited to max 3 kW in configuration software and protected by installer password
		SolPlus 100-DK	10	3	9.4	Denmark	06 March 2012	NTR		√	-	-	√	√	11/1185	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
Steca Elektronik GmbH	Germany	StecaGrid 3000	3	1	16	Denmark	9 February 2012	NTR		√	-	-	√	√	11/1705	
		StecaGrid 3600	3.6	1	16	Denmark	9 February 2012	NTR		√	-	-	√	√	11/1705	
		StecaGrid 8000+	8	3	11.6	Denmark	22 March 2012	NTR		√	-	-	√	√	11/1705	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		StecaGrid 10000+	9.9	3	14.3	Denmark	22 March 2012	NTR		√	-	-	√	√	11/1705	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
Sunways AG	Germany	NT 2500	2.5	1	10.9	Denmark	23 January 2012	NTR		√	-	-	√	√	10/7137	
		NT 3000	3.0	1	13	Denmark	23 January 2012	NTR		√	-	-	√	√	10/7137	
		NT 3700	3.7	1	16	Denmark	23 January 2012	NTR		√	-	-	√	√	10/7137	
		NT 10000	10	3	14.5	Denmark	23 January 2012	NTR		√	-	-	√	√	10/7137	
		NT 11000	11	3	16	Denmark	23 January 2012	NTR		√	-	-	√	√	10/7137	
		NT 12000	12	3	17.4	Denmark	23 January 2012	NTR		√	-	-	√	√	10/7137	
Swea	Holland	UWT-I-250	0.25	1	1	Denmark	25 April 2012	NTR		√	√	√	-	√	12/774	
		UWT-I-1KW solar	1	1	4	Denmark	25 April 2012	NTR		√	√	√	-	√	12/774	
Vertipower	China	Vertipower VPI 1500 TL	1.5	1	6.5	Denmark	14 December 2011	NTR		√	√	√	-	√	11/760	
		Vertipower VPI 2000 TL	2	1	8.7	Denmark	14 December 2011	NTR		√	√	√	-	√	11/760	
		Vertipower VPI 3000 TL	3	1	13	Denmark	14 December 2011	NTR		√	√	√	-	√	11/760	
		Vertipower VPI 10.000 TL	10	3	16	Denmark	24 April 2012	NTR		√	√	√	-	√	11/760	If limited to max 6 kW it has to be done in the configuration software and protected by installer password
		Vertipower VPI 12.000 TL	12	3	19	Denmark	24 April 2012	NTR		√	√	√	-	√	11/760	
		Vertipower VPI 18.000 TL	18	3	29	Denmark	24 April 2012	NTR		√	√	√	-	√	11/760	
		Vertipower VPI 20.000 TL	20	3	32	Denmark	24 April 2012	NTR		√	√	√	-	√	11/760	
WSL Trading	China	JSI-3000TL	3	1	13	Denmark	1 January 2011	NTR		√	√	√	-	√	10/7186	

Standards	
TF 3.2.1	Technical Regulation 3.2.1 for electricity-generation plants rated uo to and including 16 A per phase, single or multi phase (Version 2.1)
EN 50438-DK	Requirements for the connection of micro-generators in parallel with public low-voltage distribution networks (Version 2007)
VDE-AR-N-4105	DE Recommendation - Alternative to TF 3.2.1
CE-compliant	Safety etc.
Firmware	Approved firmware

Note:
NTR = Next Technical Revision (Future)