

No. 2621/0429-D-CER

By the product certificate number

Issued to:

SolarEdge Technologies Ltd.

1 Hamada street, Herzliya Pituach 4673335, Israel

Trademark:

Model:

License holder:

solaredge

Factory location:

SolarEdge Technologies Ltd.

2 Hamerkava street, industrial Zone, Tziporit, Israel

It is certified that the product:

Type of product: Three-Phase Photovoltaic Inverter

Technical Data: Rated Power

Rated Power
Rated Voltage
Rated Frequency

Firmware version

Number of phases

Isolation transformer

SE330K

330 kW

690 V_{ac} 50 Hz

2.3.132

Three Phase (3/N/PE)

No

Is in compliance with product requirements of the standard:

- Technical Prescription C10/11 of Synergrid. Edition 2.2 (15.03.2021): Specific technical prescriptions regarding powergenerating plants operating in parallel to the distribution network. (1)

(¹) Equipment considered to be connected to power generating plants of Type B (≥ 1 MW) to the medium voltage grid (> 1 kV)

Is in compliance with the requirements of regulation:

- **EN 50549-10:2022:** Requirements for generating plants to be connected in parallel with distribution networks – Part 10: Tests for conformity assessment of generating units.

The above-mentioned product is certified according to the standard Technical Prescription C10/11 of Synergrid. Edition 2.2 (15.03.2021) and is valid to be installed in PV generating plants up to and including Type B to be connected to a MV distribution network. The relation between this European Standard with the relevant Article of COMMISSION REGULATION (EU) 2016/631 (NC RfG) is considered as it is indicated in the annex H of the standard EN 50549-2:2019&AC:2019-03+A1:2023.

Aforementioned equipment is certified according to SGS internal procedure PE.T-ECPE-35 according to requirements established on standard UNE-EN ISO/IEC 17065.

This certificate is first issued on 02nd August 2024 This certificate is valid until the 02nd August 2029

Madrid, 02nd Auguts 2024

Daniel Arranz Muñiz Certification Manager









ANNEX I: EN 50549 PARAMETER TABLE

Clause(s) / subclause(s) of Technical Prescription C10/11 of Synergrid	Parameter	Remarks/ additional information	Configurable value range	Default value
D.4.1 Operating frequency range	47.0 – 47.5 Hz Duration		Not required	
	47.5 – 48.5 Hz Duration	Canada de Carante de C	30	30 min
	48.5 – 49.0 Hz Duration		30	30 min
	49.0 – 51.0 Hz Duration		Not configurable	Unlimited
	51.0 – 51.5 Hz Duration		30	30 min
	51.5 – 52.0 Hz Duration	Maketas en vistas estado. 190 percentos estados estados 190 percentos estados e	Not required	-
D.4.2 Minimal requirement for active power delivery at underfrequency	Reduction threshold	9503GBG SOSESSESSESSESSES GSC 3GBG SOSESSESSESSESSES GSC 3GBG SOSESSESSESSESSESSESSESSESSESSESSESSESSE	Not configurable	49 Hz
	Maximum reduction rate		Not configurable	2 % P _M /Hz
D.4.3 Continuous operating voltage range	Upper limit		Not configurable	110 % U _n
	Lower limit		Not configurable	90 % U _n
D.5.1 Rate of change of frequency (ROCOF) immunity	ROCOF withstand capability	COLUMN SERVICE	Not configurable	2 Hz/s







Clause(s) / subclause(s) of Technical Prescription C10/11 of Synergrid	Parameter	Remarks/ additional information	Configurable value range	Default value	
D.5.2 Under-voltage ride through (UVRT) Generating plant with non-synchronous generating technology	Maximum power resumption time		Not configurable	1	s
	Voltage-Time-Diagram	AMERICA STREET, STREET	See Figure 12 of C10/11 Edition 2.2 (15.03.2021)	Time [s]	U [p.u.]
				0,00	0,15
				0,20	0,15
		A STATE OF THE STA		1,50	0,85
D.6.1 Power response to overfrequency	Threshold frequency f1	AN CONTRACTOR OF STREET	50.2 Hz – 52.0 Hz	50.2 Hz	
	Droop	945045555555555555555555555555555555555	2 % – 12 %	5 % (40 % P _{ref} /Hz	
	Power reference		For ESS P _{max} Others P _M	P _M	
	Intentional delay	SOURCE SOLD SOLD SOLD SOLD	0 – 2 s	0s	
	Deactivation threshold fstop		50.0 Hz – f1	Deactivated	
	Deactivation time tstop	15 0 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 – 600 s		
	Acceptance of staged disconnection		No	No	
D.6.2 Power response to	Threshold frequency f1	8650 p. 665 (200 p. 675	49.8 Hz – 46.0 Hz	49.8 Hz	
underfrequency	Droop	Maria de Caracteria de Caracte	2 – 12 %	5 % (40 % P _{ref} /Hz)	
	Power reference	000050305050505050505050505050505050505	P _{max}	P _{max}	
	Intentional delay	16650 65 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 – 2 s	0 s	
D.7.1 voltage support by reactive power - Capabilities	Active factor / Reactive power (%Pd) range overexcited		0.1 –1 / 100 %P _d - 0	0.1 –1 / 1	00 %P _d - (
	Active factor / Reactive power (%Pd) range underexcited		0.1 –1 / 100 %P _d - 0	0.1 –1 / 1	00 %P _d - (





Clause(s) / subclause(s) of Technical Prescription C10/11 of Synergrid	Parameter	Remarks/ additional information	Configurable value range	Default value	
D.7.1 voltage support by reactive power – Control modes	Enabled control mode		Q setp. Q(U) Q(P)	Q set point	
D.7.1 voltage support by reactive power - Set point control modes	Q set point and excitation		0 – 98.8 % PD	0	
	cos φ set point and excitation		0.9 over-excited to 0.9 under-excited	Not available	
D.7.1 voltage support by reactive power - Voltage related control modes	Characteristic curve		0.585.585.685 0.585.585 0.585.585	U (%Un) Q (%Pn) 93% +60% 94% 0% 106% 0% 107% -60%	
	Time constant		3 s - 60 s	10 s	
	Min cos φ		0,0 – 1	0,9	
	Lock-in power		0 % – 20 %	Deactivated	
	Lock-out power		0 % – 20 %	Deactivated	
D.7.2 voltage support by reactive power - Power related control mode	Threshold frequency f1	0000 503650000 505000 50 5050 10 50 00 000656505 50 00 00 00 000656565	100 %U _n – 110 %U _n	108 %U _n	
	Droop	SUSPENSION SESSESSION OF SESSE	2 % – 12 %	10 %P _{max} / %U _n	
	Power reference	CONTRACTOR	P _{max}	P _{max}	
D.7.3 Voltage support during faults and voltage steps – General	Enabling		Enable Disable	Disabled	
	Static voltage range overvoltage		100 % U _c – 120 % U _c	110 % U _c	
	Static voltage range undervoltage		80 % U _c – 100 % U _c	90 % U _c	
/ Generating Plant with non-synchronous generator	Insensitivity range of ΔU50per		0 % – 15 %	5 %	
	Gradient k1	SCHOOL STANSON SCHOOL STANSON SCHOOL STANSON SCHOOL STANSON SCHOOL SCHOOL STANSON SCHOOL STANSON SCHOOL SCHOOL SCHOOL SCHOOL STANSON SCHOOL SC	0-6	2	
	Gradient k2		0 – 6	2	







Clause(s) / subclause(s) of Technical Prescription C10/11 of Synergrid	Parameter	Remarks/ additional information	Configurable value range	Default value
D.7.3 Optional Modes	Active power priority		N/A	N/A
/ Generating Plant with non-synchronous generator	Reactive current limitation [% rated current]		0 % - 100 %	Disable
	Zero current threshold		0 % - 100 %	Disable
D.7.3 Zero current mode	Enabling	Mileses et ses est est est	Enable Disable	Disable
for converter connected generating technology / Generating Plant with	Static voltage range overvoltage		100 % U _n – 120 % U _n	120 % U _n
non-synchronous generator	Static voltage range undervoltage		20 % U _n – 100 % U _n	50 % U _n
D.3 Requirements on voltage and frequency protection	Threshold for protection as dedicated device [in A or kW. kVA]	Equipment greater than 30kVA	N/A	
D.3 Requirements on voltage and frequency protection	Overvoltage threshold 10 min mean protection	Equipment greater than 30kVA	N/A	
D.8 Automatic	Lower frequency	\$G\$6 5055055050 50557	47.0 Hz – 50.0 Hz	49.9 Hz
reconnection after tripping	Upper frequency	Section 201	50.0 Hz – 52.0 Hz	50.1 Hz
	Lower voltage	TOTAL STREET,	50 % U _c – 100 % U _c	90 % U _c
	Upper voltage		100 % U _c – 120 % U _c	110 % U _c
	Observation time	SU SUI SOUR SUSSESSION DE SUSSES	10 s - 600 s	60 s
	Active power increase gradient		6 % - 3000 %/min	10 %/min
D.8 Starting to generate	Lower frequency	Connection and	N/A	N/A
electrical power	Upper frequency	Connection and reconnection	N/A	N/A
	Lower voltage	Will be	N/A	N/A
	Upper voltage	performed by	N/A	N/A
	Observation time	an external	N/A	N/A
	Active power increase gradient	device	N/A	N/A
D.9.1 Ceasing active power	Activation option		Digital input / Modbus	
D.9.2 Reduction of active power on set point	Activation option		Digital input / Modbus	
D.10 Remote information exchange	Available communication standards	ation information		



