

GUIDA ALLA COMPILAZIONE DELL'ADDENDUM TECNICO

S.MG-GAT :SG 4-20HBT REV. 1

Note informative per la compilazione del regolamento di esercizio

Information notes for the compilation of the operating regulations in parallel with the LV GRID for photovoltaic production plants.

The following information tables contain the technical characteristics of the SOLARMG SG-4-20KWHBT inverters for converting the power produced by the photovoltaic generator. Calibration of the integrated interface protection.

The calibration of the thresholds in compliance CEI 0-21:2019-04 -V1:2020-12 is enabled through the initial configuration from the country / standard display. The following table shows the thresholds and intervention times set by default in the integrated interface protection system of the SOLARMG SG-4-20KWHBT inverters.

Protezione	Soglia impostata (monofase/trifase)	Tempo di intervento impostato
Massima tensione su 10min (59.S1)	$1,10 \cdot V_n$: 253/440V	< 3s
Massima tensione (59.S2)	$1,15 \cdot V_n$: 264,5 / 460V	0,2s
Minima tensione (27.S1)	$0,85 \cdot V_n$: 195,5 / 340V	1,5s
Minimo tensione (27.S2)	$0,15 \cdot V_n$: 34,5/60V	0,2s
Massima frequenza restrittiva (81>S1)	50,2Hz	0,1s
Minima frequenza restrittiv`a (81<S1)	49,8Hz	0,1s
Massima frequenza permissiva (81>S2)	51,5Hz	0,1s
Minima frequenza permissiva (81<S2)	47,5 Hz	0,1s
Comando locale	Livello logico: basso (soglie restrittive disabilitate)	
Segnale esterno	Livello logico: alto	

GUIDA ALLA COMPILAZIONE DELL'ADDENDUM TECNICO

S.MG-GAT :SG 4-20HBT

REV. 1

The protection $81 > S1$ (50.2Kz) and $81 < S1$ (49.8Hz) are disabled by local command as required by the CEI 021 standard. This local command is protected from improper use and accidental changes, therefore it can only be set after parameterization protected by a password. The activation threshold of the power reduction function fed into the grid as the frequency increases is set at 50.2Hz.

General Characteristics SOLARMG SG-4-20KWHBT Inverter:

Type:	Static DC/AC converter without isolation transformers
Version FW:	V1.00
Power Type:	Three Phase
Number of poles:	3P+N+PE
Nominal Voltage AC:	380/400/415V
Power factor nominal:	$\cos=1$

Characteristics of the interface device (DDI) integrated in the inverter

Brand/Model:	SOLARMG OST-*HB-T = SG-*KWHBT
Type:	Rele
Conformit�:	IEC EN 61810-1,VDE
Interlocks:	Absent

Brand/Model:	SOLARMG
Type:	Rele
Conformit�:	IEC EN 61810-1,VDE
Interlocks:	Absent

Characteristics of the interface protection system (SPI) integrated in the inverter

Brand/Model:	SOLARMG SG-4-20KWHBT
Firmware:	V1.00
Integrated in the inverter:	yes

SOLARMG S.R.L

Via Enrico De Nicola, 52025 Montevarchi ARTel: +39 [055 911 0077](tel:0559110077)

sales@solarmg.it – solar@pec.it

Site: www.solarmg.it



GUIDA ALLA COMPILAZIONE DELL'ADDENDUM TECNICO

S.MG-GAT :SG 4-20HBT

REV. 1

Modello Inverter:	OST-4000HB-T	OST-5000HB-T	OST-6000HB-T	OST-8000HB-T
Potenza nominale:	4000W	5000W	6000W	8000W
Corrente nominale In:	15A	15A	15A	15A
Contributo alla corrente di corto circuito lcc:	6,7A	8,3A	10,0A	13,3A
Rapporto lcc/In:	0,47	0,55	0,67	0,89

Modello Inverter:	OST-10000HB-T- 25	OST-12000HB-T- 25	OST-10000HB-T- 40	OST-12000HB-T- 40
Potenza nominale:	10000W	12000W	10000W	12000W
Corrente nominale In:	15A	15A	30A	30A
Contributo alla corrente di corto circuito lcc:	16,5A	20,0A	16,5A	20,0A
Rapporto lcc/In:	1,1	1,33	0,55	0,67

Modello Inverter:	OST-15000HB-T	OST-20000HB-T
Potenza nominale:	15000W	20000W
Corrente nominale In:	30A	30A
Contributo alla corrente di corto circuito lcc:	25,0	33,5A
Rapporto lcc/In:	0,83	1,17

SOLARMG S.R.L

Via Enrico De Nicola, 52025 Montevarchi ARTel: +39 [055 911 0077](tel:0559110077)

sales@solarimg.it – solar@pec.it

Site: www.solarimg.it



GUIDA ALLA COMPILAZIONE DELL'ADDENDUM TECNICO

S.MG-GAT :SG 4-20HBT REV. 1

General characteristics of the SOLARMG EBS-5150 battery series in combination with the SOLARMG SG-4-20KWHBT inverter.

Brand	SOLARMG EBS-5150
Model Battery	EBS-5150-7, EBS-5150-10, EBS-5150-12, EBS-5150-15, EBS-5150-17, EBS-5150-20

Battery number Master /Slave	3	4	5	6	7	8
Nominal capacity	7.68kWh	10.24kWh	12.8kWh	15.36kWh	17.92kWh	20.48kWh
CUS (useful system capacity)	6,9kWh	9,2kWh	11,52kWh	13.80kWh	16,13kWh	18,40kWh
PSMAX (Power max discharge)	Potenza max scarica inverter					
Pcmax	Potenza max di carica inverter					
PSN (Nominal Power discharge)	Potenza nominale scarica inverter					
PCN (Nominal Power capacity)	Potenza nominale carica inverter					
Type:	Litio Li-ion battery LFP					
Battery management BMS	Integrated in the system					
Version battery FW	Master: 1.06 / Slave 1.10					
Sistema di protezione di interfaccia	Integrated in the inverter					
Connection Mode	DC side connection					
Tipo inverter	Bidirezionale					

SOLARMG S.R.L

Via Enrico De Nicola, 52025 Montevarchi ARTel: +39 [055 911 0077](tel:0559110077)

sales@solarmg.it – solar@pec.it

Site: www.solarmg.it

