Share.Power

Datasheet

Rev. 1. 02 E

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FULL-HYBRID configurations

Template - Share.Power	SP10K10H3SH	SP20K20H6SH	SP30K30H9SH
DC input data			
Recommended DC Input Power [W]	13.000	26.000	39.000
Dc Vmax PV (absolute maximum) input voltage [V]		1.000	
MPPT Voltage Range [V]		200 ÷ 950	
No. of independent MPP regulators	2	4	6
No. of strings per input MPP A/B	1 / 2	2 x (1 / 2)	3 x (1 / 2)
Maximum input current (per string / per MPP) [A]	11 / 20	2 x (11/ 20)	3 x (11 / 20)
Maximum short circuit current (per string / per MPP) [A]	14 / 23	2 x (14/ 23)	3 x (14 / 23)
Compatible with amorphous silicon modules		№	
AC output/input data (On-grid)			
Type of power supply		Sine triphase 3P+N	
Maximum output active power @ cosϕ=1 [W]	10.000	20,000	30,000
Maximum apparent output power [VA]	10.000	20,000	30,000
Nominal voltage [V]		400/230 ~; 380/220 ~ (-10%; +15%)	
Nominal frequency [Hz]		50/60	
Nominal Input Current [A]	14,5	29,0	43,5
Nominal Output Current [A]	16,0	32,0	48,0
Maximum Input Current [A]	14,5	29,0	43,5
Maximum Output Current [A]	16,0	32,0	48,0
Adjustable phase-out factor		0.8 over excited ÷ 0.8 under excited	
THDi distortion factor		<2%	
AC Output Data (EPS-Back up)			
Type of power supply		Sine triphase 3P+N	
Nominal apparent power [VA] *	10.000	20,000**	30,000**

* Limited to 1150 VA x N° battery modules installed in the absence of power on the DC input of the panels.
** 10000VA EPS sections in parallel only with the -EM option.

Apparent non-continuous peak power (60 sec) [VA] *	14.000	28,000**	42,000**
Nominal voltage [V]		400	
Nominal frequency [Hz]		50/60	
Nominal Output Current [A]	14,5	29,0	43,5
Neutral conductor connection		Connected to the ground (TN system)	
Battery			
Battery type		LiFePO4	
Single Nominal Voltage Battery Module [V]		48	
Nominal battery voltage in minimal configuration [V]		240	
Operating voltage range [V]		200 ÷ 500	
Maximum Charge Current [A]		25	
Maximum Discharge Current [A]		25	
Maximum storable energy for each battery module [kWh]		2,4	
Number of standard configuration battery modules	8	16	24
Rated Power in Charge/Discharge [W]	9.600	19.200	28.800
Maximum storable energy [kWh]	19,2	38,4	57,6
Usable energy [kWh]	15,36	30,72	46,08
DoD		80%	
Minimum number of work cycles		4000	
Maintenance		No maintenance required	
Single battery module weight [kg]		24	
Share.Power.B+ Battery Options			
Minimum number of additional modules		6	
Maximum additional modules		56	
Maximum total modules		64	
Maximum Total Storable Energy[kWh]		153,6	
Maximum total usable energy [kWh]		123	

Protections			
Overload protection		Yes	
Overheating protection		Yes	
AC Line Protection		Auto Break. Circuit breaker	
Battery protection		Auto Break. Circuit breaker	
DC Line Protection – PV		Disconnectors + SPDs	
Rescuer Mode Time Switch (EPS)		2.5 s	
General data and performance			
Operating temperature range [°C]		-5 to +45	
Relative humidity		0 % ÷ 95 % non-condensing	
Installation environment***		Indoor	
Degree of pollution		2	
Mounting		On the floor	
Degree of protection****		IP20	
Insulation class		I	
Standby Consumption [W]		< 10	
MPPT Performance		99,90 %	
Euro yield		97,00%	
Maximum yield		97,80%	
Dimensions and weights			
Dimensions [L. x H x P] [mm]	625x2200x600	1250x2200x600	1875x2200x600
Weight [kg] (standard number of batteries)	357	557	757
Interfaces			
GPRS (standard)		2G Dual band	
WiFi (optional)		2.4 GHz IEEE Std. 802.11 b/g	
LAN (optional)		10/100 Mbps Ethernet	
HMI		7" Touch Screen HMI Display	
Certifications and standards			
Certifications		CE / VDE0126-1-1A1:2012 / VDE-AR-N4105 / G59-3 / AS4777 / EN50438 / CEI 0-21 / IEC62619 / ISO13849-2 / SN29500 / IEC615086 / IEC 62109-1 / -2	
Warranty			
Complete system, including batteries		7 years(extendable to 10)	

**** Outdoor version with IP54 protection grade - available on request

MIXED configurations

Template - Share.Power	SP20K10HR5SH	SP30K20HR8SH	SP40K20HR10SH
DC input data			
Recommended DC Input Power [W]	24,000	36,000	48,000
Dc Vmax PV (absolute maximum) input voltage [V]		1.000	
MPPT Voltage Range [V]		250 ÷ 950	
No. of independent MPP regulators	4	6	8
No. of strings per input MPP A/B	1/2 + 1/1	2x(1/2) + 1/1	2x(1/2) + 2x(1/1)
Maximum input current (per string / per MPP) [A]	11/20 + 12/12	2 x (11/20) + 12/12	2x(11/20) + 2x(12/12)
Maximum short circuit current (per string / per MPP) [A]	14/23 + 15/15	2x(14 / 23) + 15/15	2x2(14/23) + 2x(15/15)
Compatible with amorphous silicon modules		№	
AC output/input data (On-grid)			
Type of power supply		Sine triphase 3P+N	
Maximum output active power @ cosϕ=1 [W]	20,000	30,000	40,000
Maximum apparent output power [VA]	20,000	30,000	40,000
Nominal voltage [V]		400/230 ~; 380/220 ~ (-10%; +15%)	
Nominal frequency [Hz]		50/60	
Nominal Input Current [A]	14,5	29,0	43,5
Nominal Output Current [A]	9:0 p.m.	43,5	58.0
Maximum Input Current [A]	14,5	29,0	43,5
Maximum Output Current [A]	32(0)	48.0	63.0
Adjustable phase-out factor		0.8 over excited ÷ 0.8 under excited	
THDi distortion factor		<2%	
AC Output Data (EPS-Back up)			
Type of power supply		Sine triphase 3P+N	
Nominal apparent power [VA] *	10.000	20,000**	20,000**

* Limited to 1150 VA x N° battery modules installed in the absence of power on the DC input of the panels.
** 10000VA EPS sections in parallel only with -EM option.

Apparent non-continuous peak power (60 sec) [VA] *	14.000	28,000**	28,000**
Nominal voltage [V]		400	
Nominal frequency [Hz]		50/60	
Outbound Nominal Current [A]	14,5	29,0	29,0
Neutral conductor connection		Connected to the ground (TN system)	
Battery			
Battery type		LiFePO4	
Single Nominal Voltage Battery Module [V]		48	
Nominal battery voltage in minimal configuration [V]		240	
Operating voltage range [V]		200 ÷ 500	
Maximum Charge Current [A]		25	
Maximum Discharge Current [A]		25	
Maximum storable energy for each battery module [kWh]		2,4	
Number of standard configuration battery modules	8	16	16
Rated Power in Charge/Discharge [W]	9.600	19.200	19.200
Maximum storable energy [kWh]	19,2	38,4	38,4
Usable energy [kWh]	15,36	30,72	30,72
DoD		80%	
Minimum number of work cycles		4000	
Maintenance		No maintenance required	
Single battery module weight [kg]		24	
Share.Power..B+ Battery Options			
Minimum number of additional modules		6	
Maximum additional modules		56	
Maximum total modules		64	
Maximum Total Storable Energy[kWh]		153,6	
Maximum total usable energy [kWh]		123	

Protections			
Overload protection		Yes	
Overheating protection		Yes	
AC Line Protection		Auto. Break. Circuit breaker	
Battery protection		Auto. Break. Circuit breaker	
DC Line Protection – PV		Disconnectors + SPDs	
Rescue Mode Time Switch (EPS)		2.5 s	
General data and performance			
Operating temperature range [°C]		-5 to +45	
Relative humidity		0 % ÷ 95 % non-condensing	
Installation environment***		Indoor	
Degree of pollution		2	
Mounting		On the floor	
Degree of protection****		IP20	
Insulation class		I	
Standby Consumption [W]		< 10	
MPPT Performance		99,90 %	
Euro yield		97,00%	
Maximum yield		97,80%	
Dimensions and weights			
Dimensions [L. x H x P] [mm]	1250x2200x600	1875x2200x600	2500x2200x600
Weight [kg] (standard number of batteries)	440	690	720
Interfaces			
GPRS (standard)		2G Dual band	
WiFi (optional)		2.4 GHz IEEE Std. 802.11 b/g	
LAN (optional)		10/100 Mbps Ethernet	
HMI		7" Touch Screen HMI Display	
Certifications and standards			
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Warranty			
Complete system, including batteries		7 years (extendable to 10)	

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