

Hansol AIO Powered by Samsung Batteries

1

Technical Specifications

PV Data (DC)		
Max. input total power	6.6 kWp	
Max. input power per string	3.3 kWp	
Max. input voltage	550 V	
Min. input voltage/Initial input voltage	125 V/150 V	
MPPT voltage range	125 V~500 V	
Max. input current per string	15 A	
Max. input short circuit current for each MPPT	20 A	
Max. inverter back feed current to the array	Negligible	
Number of independent MPP trackers	2	
Number of DC inputs pairs for each MPPT	2	
Connection type	MC4	
Battery Data (DC)		
System Model No.	ELSR722-00004	ELSR103-00001
Battery rated capacity	7.2 kWh	10.8 kWh
Battery usable capacity	6.48 kWh	9.72 kWh
Discharge of depth (DOD)	90 % (6000 cycles, 5 ~ 95%)	
Battery technology	Li-Ion	
Battery voltage range/nominal voltage	96~132 V/ 120V	145~198 V/ 180V
Battery Max. current	46 A	38 A
Battery nominal current	33.3 A	27.8A
Nominal DC/DC power	4.0 kW	4.98 kW
Grid Data (AC)		
Rated voltage/range	230 V/200 V~270 V	
Rated power frequency/range	50 Hz/47.5 Hz ~51.5 Hz	
Rated output power	4.98 kW	
Rated output current	22 A	
Max. input Power	8 kW	
Max. input current	35 A	
Max. output over-current protection	35.3 A	
Max. allowed output current for fuse protection	32 A	
Adjustable power factor range	0.8un~1~0.8ov	
Feed-in phases/connection phases	1/1	

Hansol AIO Powered by Samsung Batteries

Total Harmonic Distortion. (Total harmonic factor of the output current with total harmonic factor of the AC voltage < 2%, and AC power > 50% of the rated power)	<5 %	
Emergency Power Supply (LOAD)		
Rated voltage	230 Vac	
Rated Frequency	50 Hz	
Rated current	17.4 A	22 A
Rated power	4 kW	4.98kW
Feed in type	Single-phase	
Efficiency (PV to Grid)		
European efficiency	96 %	
Max. efficiency	97 %	
Protective Device	Yes	
DC disconnection device for PV	Yes	
Ground-fault monitoring(RCMU)/grid monitoring	Yes/Yes	
General Data		
Dimensions (W/H/D)	1200/1140/280 mm	
Weight	104 / 44.9 kg	
Protective class (I, II, III)	Class I	
Degree of protection	IP54	
Max. permissible value for relative humidity	95 % (non-condensing)	
Operating temperature	-10~40° C	
Storage temperature	-20~60° C	
Noise emission	≤50dB(A) @ 1m	
Over voltage category	III	
Features		
Display	Custom LCD	
Communication	LAN, RS485	
Energy management system	Integrated	
Certificates and approvals	IEC62109-1/2 AS/NZS 3100, AS4777.2:2015, CE	

Hansol AIO Powered by Samsung Batteries

Item	Specification	
Product name	Battery Cell	Battery Tray
Type/model	CM0630B0002G	ELPT362-00004
Nominal voltage	3.75V	60V
Rated capacity	63Ah	60Ah
Recommended charging voltage by manufacturer	4.12V	65.92V
Upper limit charging voltage	4.12V	-
Recommended charging current by manufacturer	21A	21A
Maximum charging current	150A	38A (model no. ELSR103-00001) 46A (model no. ELSR722-00004)
Charging temp. upper limit	65°C	65°C
Charging temp. lower limit	-40°C	-20°C
Standard charging method by manufacturer	Charge at constant current 21A until voltage reaches 4.12V, then charge at constant voltage 4.12V till charge current is 1.2A.	Charge at constant current 21A until voltage reaches 65.92V, then charge at constant voltage 65.92V till charge current is 3.15A.
Charging procedure for internal short-circuit test	Charge at constant current 150A until voltage reaches 4.12V, then charge at constant voltage 4.12V till charge current is 0.05C (3.15A).	-
Maximum discharge Current	120 A	38 A (model no. ELSR103-00001) 46 A (model no. ELSR722-00004)
Final discharge voltage	2.7 V	43.2 V
Dimension	(45.6±0.4) mm × (173.9±0.3) mm × (125.7±0.4) mm	(160.3±2) mm × (408.3±2) mm × (513.8±2) mm
Weight	(1900±100) g	(44.9±0.5) kg