



Low-voltage-architecture design for home safety



Adjustable AC power from 3kW to 6kW via APP



Optional electrical box for flexible installation



5kWh ~ 30kWh expandable capacity



Bluetooth and WiFi based APP



Optional built-in heater for cold weather



45 minutes fast charging from 10% to 85% SOC



On-grid & Off-grid applications



DC & AC coupled



Built-in EPS, no extra EPS/ATS box needed



True 100% full power EPS output during off-grid



10-year warranty for the whole system

Battery Pack SkyBatt S5.1 Specification

ELECTRICAL

Capacity	5.12kWh/100Ah
Nominal voltage	51.2V
Operating voltage range	43.2-58.4V
Depth of Discharge	0.9
Max. charge/discharge power	5.12kW
Max. charge/discharge current	100A/100A
Cycle life	8,000 cycles [90% DOD 25°C]

GENERAL

Cell Technology	Lithium-ion (LFP)
IP Protection	IP65
Dimensions (W*H*D)	515*400*205mm
Weight	48kg
Warranty	10 years
Operating Temperature Range	-20 ~ +55 °C
Certification	IEC62619/IEC61000-6-1~4/CEI0-21/CE/UN38.3/MSDS

Hybrid Inverter SkyInv S3.68/4.6/5/6 Specification

INPUT (PV)	3.68kW Inverter	4.6kW Inverter	5kW Inverter	6kW Inverter
Max PV Power			9000W	
Max PV Voltage			550V	
Max Input Current (Per MPPT)			15A	
Max Short Current (Per MPPT)			20A	
Start Operating Voltage			90V	
MPPT Voltage Range			70V - 520V	
Number of MPPT			2	
String Per MPPT			1	

Hybrid Inverter SkyInv S3.68/4.6/5/6 Specification

INPUT (BATTERY)	3.68kW Inverter	4.6kW Inverter	5kW Inverter	6kW Inverter
Compatible Battery Type	Lithium-ion (LFP)			
Nominal Battery Voltage	51.2V			
Battery Voltage Range	40V – 60V			
Max. Charge / Discharge Current	120A/120A			
Max. Charge / Discharge Power	3680W/ 3680W	4600W/ 4600W	5000W/ 5000W	6000W/ 6000W

AC OUTPUT (GRID)	3.68kW Inverter	4.6kW Inverter	5kW Inverter	6kW Inverter
Nominal AC output power	3680W	4600W	5000W	6000W
Max. AC output apparent power	3680VA	4600VA	5500VA	6000VA
Max. AC output current	16A	20A	23.9A	26A
Rated AC voltage	230V			
AC voltage range	150V-300V (Adjustable)			
Rated grid frequency	50Hz/60Hz			
AC frequency range	45Hz-55Hz/55Hz-65Hz (Adjustable)			
Grid connection	Single phase			
Power factor	> 0.99 @rated power (Adjustable 0.8LD -0.8 LG)			
THDI	<3% (Rated Power)			

AC OUTPUT (BACKUP)	3.68kW Inverter	4.6kW Inverter	5kW Inverter	6kW Inverter
Nominal output voltage	230V			
Nominal output frequency	50Hz/60Hz			
Nominal output power	3680W	4600W	5000W	6000W
Nominal output current	16A	20A	21.7A	26A
Transfer time	10ms			
THDV	<3% @100% R Load			

EFFICIENCY	3.68kW Inverter	4.6kW Inverter	5kW Inverter	6kW Inverter
Max. Efficiency (PV to AC)	97.3%			
Max. Efficiency (BAT to AC)	94.0%			

Hybrid Inverter SkyInv S3.68/4.6/5/6 Specification

GENERAL	3.68kW Inverter	4.6kW Inverter	5kW Inverter	6kW Inverter
Max. operation altitude	4000m			
Noise emission	<35dB			
Ingress protection degree	IP65			
Operating temperature range	-25~+60 °C			
Relative humidity	0~100%			
Cooling concept	Natural Cooling			
Mounting	Wall bracket			
Dimensions (W*H*D)	515mm*485mm*175mm			
Weight	25KG			
Display	LED & APP			
Communication interface	RS485/CAN (for BMS), RS485, USB, DRM/RS485 (for Meter), Bluetooth, WiFi/GPRS/LAN			
Warranty	5Years (Standard) / 10Years (Optional)			
Grid	VDE-AR-N4105, IEC 61727/62116, AS 4777.2, EN 50549-1, G98, G99, G100, CEI 0-21, NRS 097-2-1			
Safety	IEC 62109-1&2, IEC 62040-1, IEC 62477-1			