



SKY
POWER



ENERGY STORAGE SYSTEM TECHNICAL DATA

Genesis SkyPower Inverter Series	SUN-7.6K-SG01LP-US Genesis-7.6k-LV	SUN-8K-SG01LP-US Genesis-8k-LV	SUN-12K-SG01LP-US Genesis-12k-LV
Hybrid Inverter			
AC Output Voltage	120/240Vac (Split Phase), 120/208Vac (2/3 phase), 230Vac (1 Phase)		
AC Output Frequency	50/60Hz		
Grid Type	Split Phase, 2/3 phase, Single Phase		
Out power factor	0.8 leading... 0.8 lagging		
Output THDI	< 2%		
Efficiency			
Max Efficiency	98.2%		
Europe Efficiency	97.8%		
PV Input Data (DC)			
MAX dc input power	9 kW	12 kW	16 kW
Numbers of MPPT's	4 MPPT		
MPPT Range	120 – 500v		
Max dc input voltage per MPPT	500v		
Max Input Current per MPPT	14A		
Battery Input Data (DC)			
Nominal Voltage (vdc)	48		
Max Current Charge & Discharge	120A / 120A	190A / 190A	190A / 210A
Battery type	Lithium, iron phosphate or Lead Acid		
Charging strategy for smart batteries	Self-adaptation to Battery Management System		
AC output (On-Grid)			
Rate AC Output	7.6kW	8kW	12kW
Max Output Current	30A	36.7A	50A
Nominal Output to Grid	30A	33.3A	50A
AC Output (EPS Backup)			
Rated Backup Output Power	7.6kW	8kW	12kW
Max Backup Output Power	8.0kW 1S	12kW 1S	15kW 1S

Energy Storage	SkyPower1548		
Total Energy	15.80 kWh (iron phosphate)		
Nominal Voltage	51.2 vdc		
Operation Voltage Range	48~57.6		
Max Charge & Discharge	200 A		
Operating Temperature Range	-20 °C + 65°C*		
Stackable	Up to 10 units (158 kWh)		
Monitoring Parameters	BMS: Battery voltage, current, cell voltage, cell temperature		
Communication	CAN and RS485		
Enclosure Protection Rating	IP-65 (stainless steel)		
Round trip efficiency	97%		
Weight	130 kg battery / 22 kg cabinet / 30 kg Hybrid inverter		
Dimension (W x D x H)	780 mm X 350 mm x 1675mm		
Product Warranty	10 years warranty or 8,000 cycles		
Standard Compliance Certifications	VDE2510 / UN 38.3 / UL1642 / UL1973 / TUV (IEC62619)		
		General Data	
		Certifications	UL1741, IEEE1547, RULE21, VDE0126, AS4777, NR2017, G98, G99
		EMC	IEC62109, IEC62109-2
		IP Rank	IP65/NEMA 3R
		Weight	32 kg
		Dimension (W x H x D)	430 x 710 x 210mm
		Noise (dB)	<29dB
		Display	LCD
		Cooling	Fan Cooling
		Operation Temp	-25 ~ + 60C
		Environment humidity	0-95%



SKY
POWER



Model	SkyPowerBox12100	SkyPowerBox12200
Cell chemistry	LifePo4 (No fire risk)	
Usable Capacity	1200 Wh	2400 Wh
Depth of Discharge (DoD)	80%	
Nominal Voltage	12.8 Vdc	
Operation Voltage Range	10~14.6Vdc	
Cycle Life	6,000 at 80%	
Max. Charge/Discharge Current	50A / 100A	100A / 200A
Operating Temperature Range	- 20 °C ~ 60 °C*	
Scalability	Max 4 modules in series connection	
Compatible inverters	SkyPower, HydroESS, Growatt / LXP / Victron / Genesis / Solark / Fortress	
Monitoring Parameters	Battery voltage, current, cell voltage, cell temperature	
Communication	CAN and RSJ485	
Enclosure Protection Rating	IP55	
Round trip efficiency	90% peak	
System Weight	12 kg / 20 kg	
Dimension (W x D x H)	330 x 172 215mm (L*W*H)	
Certifications & Safety standards	UN 38.3 / UL1642 / UL1973 / TUV (IEC62619) / CE / VDE2510	
Application	On Grid applications or UPS Backup applications	
Performance warranty	20 years (After 6,000 cycles it retains its capacity at 70%)	
Product Warranty	10 years free parts	



- ✓ Safety in use
- ✓ Low self discharge rate
- ✓ High temperature performance
- ✓ High cycle times and long service life

- ✓ High energy density and conversion efficiency
- ✓ Environmental friendly, without any heavy metals
- ✓ Easy installation, easy maintenance, easy replacement on solar Street light