



**SUNSYNK 5-8-12-16KVA
SINGLE/THREE PHASE HYBRID INVERTER
5.12KWH-10.65KWH BATTERY**



Solar Compatibility



Flexible Investment



More Usable Energy



Safe & Reliable

oxbow

SUN  SYNK[®]

SINGLE/THREE-PHASE HYBRID INVERTER

Specifications

	SUN-5K-SG01LP3	SUN-8K-SG01LP3	SUN-12K-SG01LP3	SUN-16K-SG01LP3
Battery Type	Lead-acid or Lithium-ion	Lead-acid or Lithium-ion	Lead-acid or Lithium-ion	Lead-acid or Lithium-ion
Battery Voltage Range	40-60V	40-60V	40-60V	43-60V
Max. Charging Current	120A	190A	240A	275A
Max. Discharging Current	120A	190A	240A	300A
Charging Curve	3 Stages/Equalization	3 Stages/Equalization	3 Stages/Equalization	3 Stages/Equalization
External Temperature Sensor	Optional	Optional	Optional	Optional
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	Self-adaption to BMS	Self-adaption to BMS	Self-adaption to BMS
PV String Input Data				
Max. DC Input Power	6500W	9880W	15000W	18000W
PV Input Voltage	370V (125V-500V)	450V (140V-1000V)	450V (140V-1000V)	450V (140V-1000V)
MPPT Range	150V-425V	140V-800V	140V-800V	250-450V
Start-up Voltage	125V	160V	160V	150V
PV Input Current	13A+13A	12.5A+12.5A	25A+12.5A	22A + 22A
No. of MPPT Trackers	2	2	2	3
No. of Strings Per MPPT Tracker	1+1	1+1	2+1	2
AC Output Data				
Max. AC Power	5500W	8800W	13200W	16000W
Peak Power (off-grid)	2 times of rated power, 10 S	2 times of rated power, 10 S	2 times of rated power, 10 S	2 times of rated power, 10 S
Grid Type	Single Phase	Three Phase	Three Phase	Single Phase
Current Harmonic Distortion	THD<3% (Linear load<1.5%)	THD<3% (Linear load<1.5%)	THD<3% (Linear load<1.5%)	THD<3% (Linear load<1.5%)
General Data				
Size		330Wx433Hx238Dmm	673Wx462Hx265Dmm	422Wx702Hx281Dmm
Noise	<30dB	<30dB	<30dB	<30dB

SUN-BATT 5.12 KWH

SUN-BATT 10.65 KWH

Performance	
Nominal Voltage	51.2 Vdc
Nominal Capacity	208Ah
Battery Energy ¹	10650 Wh
Charge Voltage	55.68-56.16Vdc
Discharge Voltage	45.6-56.16 Vdc
Nominal Charge/Discharge Current	100A
Nominal Charge/Discharge Power	5000W
Max Charge / Discharge Current	200A
Max Charge / Discharge Power	10000W
Short Circuit Current	540A
General Specification	
Dimension(WxDxH mm)	550x160x836mm
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate
Cycle life ³	6000 Cycles @ 80% DOD / 25 / 0.5C, 60% EOL
Scalability	Max 8 batteries in parallel

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