






**SUNERG HYBRID INVERTER HAS SIZES
 OF POWER 3/3.6/5/6 KW IS SUITABLE FOR ANY TYPE
 OF ENVIRONMENT AND INSTALLATION**

-  Colorful touch LCD, IP65 protection degree
-  AC couple to retrofit existing solar system
- 16** Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 140** Max. charging/discharging current of 140A
- 6** 6 time periods for battery charging/discharging
-  Support storing energy from diesel generator

TYPE DESIGNATION

Battery Input Sata	X-SUN-3-KSG-EU	X-SUN-3.6-KSG-EU	X-SUN-5.0-KSG-EU	X-SUN-6.0-KSG-EU
Battery Type	Lead-acid or Lithium-ion			
Battery voltage range (V)	40 ~ 60V			
Max. charging current	70 A	90 A	120 A	135A
Max. discharging current	70 A	90 A	120 A	135A
Charging curve	3 Stages / Equalization			
External temperature sensor	Yes			
Charging strategy for Li-Ion battery	Self-adaption to MBS			
PV String Input Data				
Max. DC Input Power (W)	3900 W	4680 W	6500 W	7800 W
PV Input Voltage (V)	370 V (125V ~ 500V)			
MPPT Range (V)	150 ~ 425V			
Full Load DC Voltage Range	300 ~ 425v			
Start-up Voltage (V)	125 V			
PV Input Current (A)	13A		13A + 13A	
No. of Strings Per MPPT Tracker	1/1		2/1+1	
AC Output Data				
Rated AC output and UPS power (W)	3000W	3600W	5000W	6000W
Max. AC output power (W)	3300W	3960W	5500W	6600W
Peak Power (off grid)	2 times of rated power, 10 S			
AC Output Rated Current (A)	13.6/13A	16.4/15.7A	22.7/21.7A	27.3/26.1A
MAx. AC Current (A)	15/14.3A	18/17.2A	25/23.9A	30/28.7A
Max Continuous AC Passthrough (A)		35A		40
Power Factor	0.8 leading to 0.8 lagging			
Output Frequency and Voltage	50/60Hz; L/N/PE 220/230/240Vac (single phase)			
Grid Type	Single Phase			
Current Harmonic Distortion	THD <3% (Linear load <1.5%)			
Efficiency				
Max. efficiency	97.60%			
Euro efficiency	96.50%			
MPPT Efficiency	99.90%			
Protection				
Integrated	Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge Protection			
Over Voltage Category	Over Voltage Category			
General Data				
Dimensions (W*H*D)	330 x433x238 mm			
Weight	14 kg			15.1
Degree of protection	IP65			
Operating temperature range	-40 ~60°C, >45°C derating			
Cooling	free cooling			
Communication with BMS	RS485;CAN			
Installation Style	Wall-mounted			
Warranty	5			
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105			
SafetyRegulationm	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			