



Max. Efficiency  
97.6%



2 MPPT



IP65  
Ingress Protection



AC Coupled



Internal SPD



Support Multiple  
Parallel

## X-SUN-3/3.6/5/6

L'INVERTER IBRIDO SUNERG DISPONE DI TAGLIE  
DI POTENZA 3/3.6/5/6 KW SI ADATTA AD OGNI TIPO  
DI AMBIENTE ED INSTALLAZIONE

## 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			
<b>PV String Input Data</b>				
Max. DC Input Power (W)	3900 W	4680 W	6500 W	7800 W
PV Input Voltage (V)	370 V (100V ~ 500V)			
MPPT Range (V)	150 ~ 425V			
Full Load DC Voltage Range	250 ~ 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	
<b>AC Output Data</b>				
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	21.3/26.1A
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; 220/230/240Vac (single phase)			
Grid Type	Single Phase			
Current Harmonic Distortion	THD <3% (Linear load <1.5%)			
<b>Efficiency</b>				
Max. efficiency	97.60%			
Euro efficiency	96.50%			
MPPT Efficiency	99.90%			
<b>Protection</b>				
PV Input Lightning Protection	Integrated			
Anti-islanding Protection	Integrated			
PV String Input Reverse Polarity Protection	Integrated			
Insulation Resistor Detection	Integrated			
Residual Current Monitoring Unit	Integrated			
Output Over Current Protection	Integrated			
Output Shorted Protection	Integrated			
Output Over Voltage Protection	Integrated			
<b>General Data</b>				
Dimensions (W*H*D)	365.5x470.5x261 mm			
Weight	14 kg			
Degree of protection	IP65			
Operating temperature range	-25 ~60°C, >45°C derating			
Cooling	natural cooling			
Communication with BMS	RS485;CAN			
Installation Style	Wall-mounted			
Warranty	5			
Grid Regulation	VDE 0126,AS4777,NRS2017,G98,G99,IEC61683,IEC62116,IEC61727			
SafetyRegulationm	IEC62109-1, IEC62109-2			
EMC	EN61000-6-1, EN61000-6-3			