



Sunover Solar

SINGLE PHASE HYBRID INVERTER

SRP-UN-G3-12KW FEATURES



Colorful touch LCD, Ip65 protection degree



Ac coupling to retrofit existing solar system



Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel



Max. charging/discharging current of 250A



6 time periods for battery charging/discharging



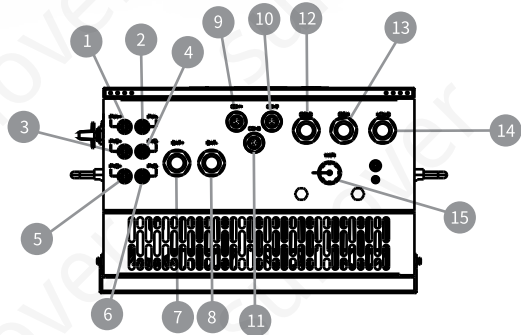
Support storing energy from diesel generator



CERTIFICATIONS

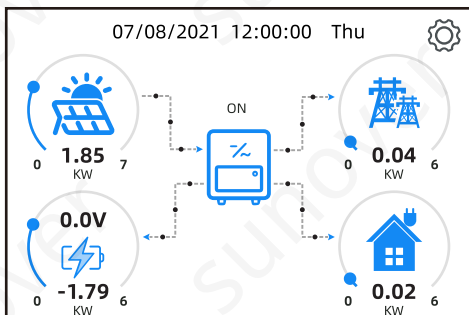


PRODUCT CHARACTERISTICS



- | | | | | |
|--------|--------|--------|---------|---------|
| 1.PV1+ | 4.PV2- | 7.BAT+ | 10.COM2 | 13.GEN |
| 2.PV1- | 5.PV3+ | 8.BAT- | 11.COM3 | 14.LOAD |
| 3.PV2+ | 6.PV3- | 9.COM1 | 12.GRID | 15.WIFI |

LCD DISPLAY ICONS



BASIC SYSTEM ARCHITECTURE



Model	SRP-UN-G3KW	SRP-UN-G3.6KW	SRP-UN-G4.2KW	SRP-UN-G5KW	SRP-UN-G6KW	SRP-UN-G8KW	SRP-UN-G10KW	SRP-UN-G12KW
Battery Input Data								
Battery Type	Lead-acid or Li-Ion							
Battery Voltage Range(V)	40-60							
Max. Charging Current(A)	70	90	98	120	135	190	220	250
Max. Discharging Current(A)	70	90	98	120	135	190	220	250
Charging Curve	3 Stages / Equalization							
External Temperature Sensor	yes							
Charging Strategy for Li-Ion Battery	Self-adaption to BMS							
PV String Input Data								
Max. DC Input Power(W)	3900	4680	5460	6500	7800	10400	13000	15600
PV Input Voltage(V)	370V (125V~500V)							
MPPT Range(V)	150~425V							
Full Load DC Voltage Range	200~425V							
Start-up Voltage(V)	125V							
PV Input Current(A)	13+13	13+13	13+13	13+13	13+13	20+20	26+26+26	26+26+26
No. of MPPT Trackers	2	2	2	2	2		3	
No. of Strings Per MPPT Tracker	1+1	1+1	1+1	1+1	1+1	1+1	1+1+1	1+1+1
AC Input/Output Data								
Rated AC Output and UPS Power(W)	3000	3600	4200	5000	6000	8000	10000	12000
Max. AC Output Power(W)	3300	3900	4620	5500	6600	8800	11100	13200
Peak Power(off grid)	2 times of rated power, 10 S							
AC Input/Output Rated Current(A)	13.7/13.1	16.4/15.7	19.1/18.3	22.8/21.8	27.3/26.1	36.4/34.8	45.5/43.5	54.6/52.2
Max. AC Input/Output Current(A)	15/14.4	18/17.3	21/20.2	25/24	30/28.7	40/38.3	50/47.9	60/57.4
Max. Continuous AC Passthrough(A)	35	35	35	35	40	50	60	60
Power Factor	0.8 leading to 0.8 lagging							
Output Frequency and Voltage	50/60Hz; 220/230Vac							
Grid Type	Single Phase							
Total Harmonic Distortion (THD)	<3% (of nominal power)							
DC current injection	<0.5% In							
Efficiency								
Max. Efficiency	97.60%							
Euro Efficiency	96.50%							
MPPT Efficiency	>99%							
Protection								
PV Arc Fault Detection	Integrated							
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			
Surge Protection	DC Type II / AC Type II			
Over Voltage Category	DC Type II / AC Type III			
Certifications and Standards				
Grid Regulation	IEC61727/62116,EN50549-1			
EMC/Safety Regulation	IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2			
General Data				
Operating Temperature Range(°C)	-40~60°C, >45°C Derating			
Cooling	Smart cooling			
Noise(dB)	<50 dB			
Communication with BMS	RS485; CAN			
Monitoring mode	Wi-Fi+APP			
Weight(kg)	24	29	31	31
Cabinet size(mm) (Excluding connectors and brackets)	340W×575H×255D	413W×630H×257.5D	413W×630H×257.5D	413W×630H×257.5D
Protection Degree	IP65			
Installation Style	Wall-mounted			
Warranty	5 Years (10 Years Optional)			