

SINGLE PHASE HYBRID INVERTER

SUNIN-6KM2-L1P1-EU

MAIN FEATURES

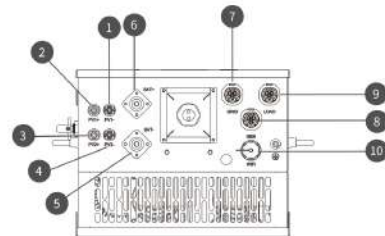
-  Colorful touch LCD, IP65 protection degree
-  AC coupling to retrofit existing solar system
-  Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
-  Max. charging/discharging current of 135A
-  6 time periods for battery charging/discharging
-  Support storing energy from diesel generator



CERTIFICATIONS

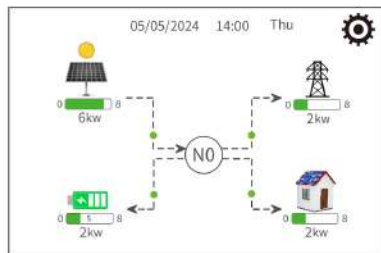


PRODUCT CHARACTERISTICS



- 1: PV1- 3: PV2+ 5: BAT- 7: GRID 9: LOAD
2: PV1+ 4: PV2- 6: BAT+ 8: GEN 10: WIFI

LCD DISPLAY ICONS



BASIC SYSTEM ARCHITECTURE



Residential Energy Storage Hybrid Inverter

Varsaille
CANADA

TECHNICAL PARAMETER

Model	SUNIN-6KM2-L1P1-EU
PV String Input Data	
Max. DC Input Power	7800W
Rated PV Input Voltage	370 V
Start-up Voltage	125V
MPPT Voltage Range	150-425V
Full Load MPPT Voltage Range	200-425V
Max. DC Input Current	13A+13A
Max. DC Short Circuit Current	22A+22A
No. of MPPT Trackers	2
No. of Strings per MPPT Tracker	1+1
AC Input/Output Data	
Rated AC Output Power	6000W
Max AC Output Power	6600W
AC Input/Output Rated Current	27.3A/26.1A
Max AC Input/Output Current	30.0A/28.7A
Max. Continuous AC Passthrough	40A
Peak Power (off grid)	2 times of rated power, 10 S
Power Factor	0.8 leading to 0.8 lagging
AC Output Frequency and Voltage	50/60Hz; 220/230Vac
Grid Type	Single Phase
Total Harmonic Distortion	<3% (of nominal power)
DC Current Injection	<0.5% In
Battery Input Data	
Battery Type	Lead-acid or Li-ion
Battery Voltage Range	40~60Vdc
Max. Charging Current	135A
Max. Discharging Current	135A
External Temperature Sensor	Yes
Charging Curve	3 Stages / Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
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/IEC 62116, EN 50549-1
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
General Data	
Operating Temperature Range	-40~+60°C, >45°C derating
Cooling	Smart Cooling
Noise (dB)	≤50 dB(1 meter)
Communication with BMS	RS485; CAN
Monitoring mode	WIFI+APP
Weight (NW kg)	24Kg
Product Size (W x H x D mm)	346x506x255mm
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 Years (10Years Optional)