

THREE PHASE HYBRID INVERTER

SUNIN-12KM2-L1P3-EU

MAIN FEATURES

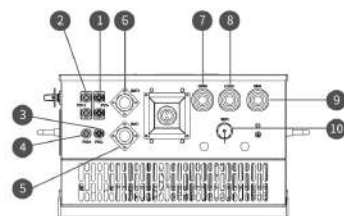
-  100% three-phase unbalanced output, with each phase capable of delivering up to 50% of the rated power.
-  AC coupling to retrofit existing solar system
-  Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
-  Max. charging/discharging current of 240A
-  6 time periods for battery charging/discharging
-  Support storing energy from diesel generator
-  48V low voltage battery, transformer isolation design



CERTIFICATIONS

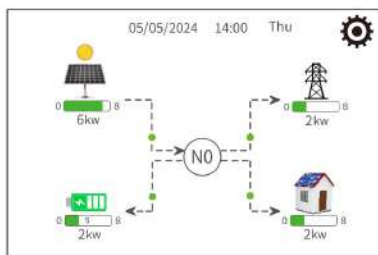


PRODUCT CHARACTERISTICS



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

LCD DISPLAY ICONS



BASIC SYSTEM ARCHITECTURE



Residential Energy Storage Hybrid Inverter **Varsaille**

CANADA

TECHNICAL PARAMETER

Model	SUNIN-12KM2-L1P3-EU
PV String Input Data	
Max. DC Input Power	15600W
Rated PV Input Voltage	550V
Start-up Voltage	160V
MPPT Voltage Range	200V~650V
Full Load MPPT Voltage Range	350V~650V
Max. PV Input Current	26A+13A
Max. PV Short Circuit Current	34A+17A
No. of MPPT Trackers	2
No. of Strings per MPPT Tracker	2+1
AC Input/Output Data	
Rated AC Output Power	12000W
Max. AC Output Power	13200W
AC Input/Output Rated Current	18.2A/17.4A
Max. AC Input/Output Current	20.0A/19.1A
Max. Three-phase Unbalanced Output Current	27.3A/26.1A
Max. Output Short Circuit Current	75A
Max. Continuous AC Passthrough	45A
Peak Power (off grid)	2 times of rated power, 10s
Power Factor	0.8 leading to 0.8 lagging
AC Output Frequency and Voltage	50/60Hz, 3L/N/PE 220/380Vac, 230/400Vac
Grid Type	Three 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	240A
Max. Discharging Current	240A
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
Over Voltage Category	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
Safety EMC / Standard	IEC/EN61000-6-1/2/3/4, IEC/EN62109-1, IEC/EN62109-2
General Data	
Operating Temperature Range(°C)	-40°C~+60°C, >45°C derating
Cooling	Smart cooling
Noise(dB)	<50dB (1 meter)
Communication with BMS	RS485, CAN
Monitoring mode	WiFi + APP
Weight(NW Kg)	34Kg
Product Size(WxHxDmm)	576*446*255mm
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 Years (10 Years Optional)