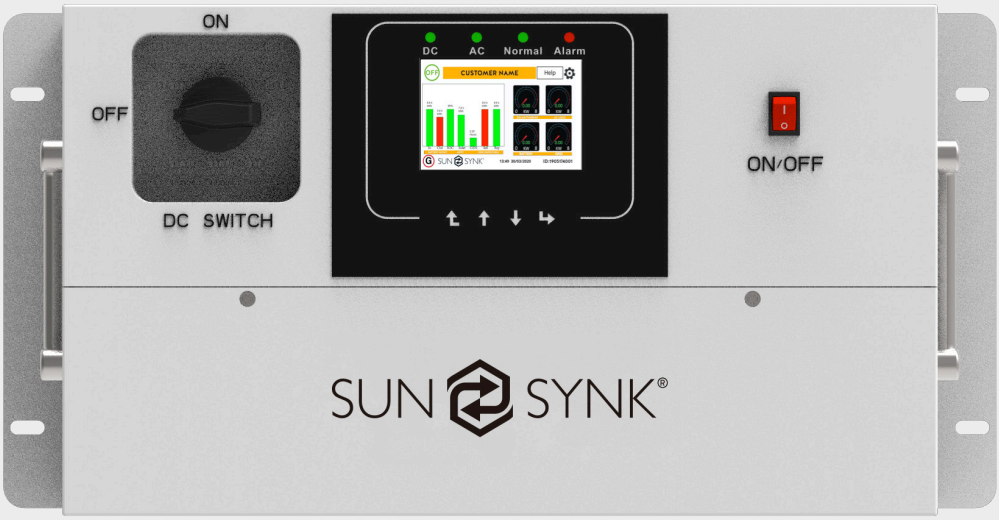
RACK-MOUNTED HYBRID PARITY (SUPER) INVERTER



DATASHEET

SUNSYNK-7.6K-SG01LP1

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v.13 (23/05/24)

PLEASE RETAIN FOR FUTURE REFERENCE

Model	SUNSYNK-7.6K-SG01LP1
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range	40~60V
Max. Charging Current	190A
Max. Discharging Current	190A
Charging Curve	3 Stages/Equalisation
External Temperature Sensor	Yes
Charging Strategy for Li-Ion Battery	Self-Adaptation to BMS
PV String Input Data	
Max. DC Input Power	9880W
PV Input Voltage	370V (100V~500V)
MPPT Range	150~425V
Start-up Voltage	125V
PV Input Current	26A + 26A
Max.PV Isc	44A + 44A
No. of MPPT Trackers	2
No. of Strings Per MPPT Tracker	2+2
AC Output Data	
Rated AC Output and UPS Power	7600W
Max. AC Power	7600W
Peak Power (Off-Grid)	2 times of rated power, 10 S
AC Output Rated Current	33.1A
Max AC Output Current	33.1A
Max Continuous AC Passthrough	50A
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50 / 60Hz; 208Vac (2 / 3 Phase), 220/230Vac (Single Phase)
Grid Type	Single phase
Total Harmonic Distortion (THD)	<3% (of nominal power)
DC Current Injection	<0.5% In
Efficiency	
Max. Efficiency	97.60%
MPPT Efficiency	97.00%
Euro Efficiency	>99%
Protection	
Integrated	PV Arc Fault Detection, PV Input Lightning Protection, 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	DC Type II / AC Type II
Over Voltage Category	DC Type II / AC Type III
Certifications and Standards	
Grid Regulation	EN 50549-1, AS-NZS 4777.2, NRS 097-2-1; Additional connections available upon request
EMC/Safety Regulation	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	<30
Communication with BMS	RS485; CAN
Weight	30kg
Cabinet Size	549W×365.8H×482D (Excluding connectors and brackets)
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 years

NOTE:

Safe Transport and Handling of Inverter:

When transporting the equipment, use its original packaging and keep it as a complete unit. Store the product in a dry environment, avoiding direct sunlight, and maintain a temperature range between -40°C and 60°C. Since the equipment can be quite heavy, always consider its total weight when moving, transporting, or installing it, ensuring that the installation site has adequate load-bearing capacity. Transporting and installing the inverter should be carried out solely by qualified personnel.

SUN SYNK®

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