

HI10kW3P

Hybrid Inverter



The 10kW is a high power, high efficiency, high integration of inverter for residential application:

- Support two strings of PV panel
- Support high PV power up to 15 kW
- Integrated battery charger/discharger
- Max. efficiency 98%
- On grid/off grid operation
- Full featured protection

Easy Setup & Installation

Wide operating ranges for solar system and battery system application flexibility.

High Performance

Up to 98% for both Battery-to-load and PV-to-load efficiency.

Remote/On-site Monitoring

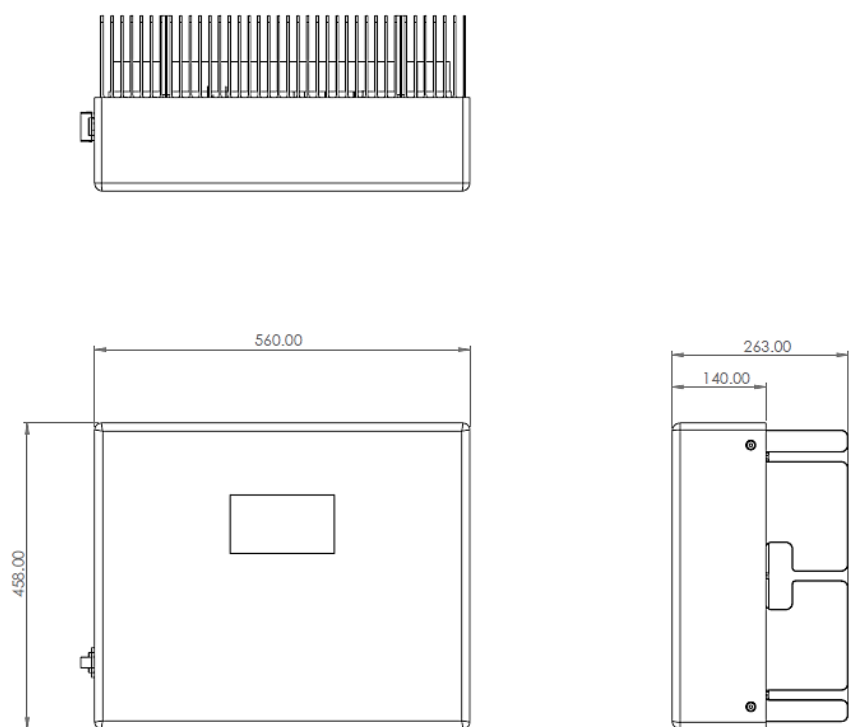
Remote control/monitor via Wi-Fi communication.

Web-based control system.

Product Specifications	
PV Input (DC)	
Max. Input Power	7500 W per string
Number of PV String	2
Max. PV Input Voltage	850 V
Start-up Voltage	100 V
MPPT Voltage Range	200 V – 700 V
Rated PV Input Voltage	500 V
Max. Operating PV Input Current	30 A x 2
Max. Input Short Circuit Current	40 A x 2
No. of MPPT Trackers	2
Battery Input (DC)	
Battery Type	Li-ion
Nominal Battery Voltage	400 V
Battery Voltage Range	150 V -- 600 V
Start-up Voltage	150 V
Max. Continuous Charging Current	25 A
Max. Continuous Discharging Current	25 A
Max. Charging Power	10000 W
Max. Discharge Power	10000 W
AC Output (On-grid)	
Rated AC Output Real Power	10000 W
Max. AC Output Apparent Power	10000 VA
Max. AC Output Current	17 A
Rated Output Voltage	380V, 3L/N/PE
Output Voltage Range	380V + 10/-10%
Grid Connection Form	3L/N/PE
Nominal Output Grid Frequency	50/60 Hz
Output Grid Frequency Range	45 Hz – 55 Hz / 55 Hz – 65 Hz
Power Factor Adjustment Range	0.85 leading – 0.85 lagging
Max. Current Harmonic Distortion THDi	< 5 %
AC Output (Off-grid)	
Max. AC Output Apparent Power	10000 VA
Max. AC Output Current	17 A
Nominal Output Voltage	380V, 3L/N/PE

Nominal Output Frequency	50 Hz / 60 Hz
Grid Connection Form	3L/N/PE
Max. Voltage Harmonic Distortion THDv	< 3% @linear load
Efficiency	
Max. Efficiency	98%
European Efficiency	97.5 %
Max. Battery to AC efficiency	98%
MPPT Efficiency	> 99 %
Equipment Protection	
AC Output Overcurrent Protection	Yes
AC Output Overvoltage Protection	Yes
AC Output Overpower Protection	Yes
Residual Current Monitoring	Yes
PV Input Overvoltage Protection	Yes
PV Input Overcurrent Protection	Yes
PV insulation Resistance detection	Yes
Battery Input Overvoltage Protection	Yes
Battery Input Overcurrent Protection	Yes
Thermal Protection	Yes
DC Switch	Integrated
AC Switch	Integrated
Remote Shutdown	Yes
General Data	
Operating Temperature Range	-25°C to +65°C, Derating at 45°C and above
Permissible Ambient Humidity	0 – 100 %
Noise	≤25 dB
Communication	Wi-Fi, CAN
Cabinet Size (W x H x D)	458 mm x 560 mm x 263mm (Excluding Connectors)
Type of Cooling	Natural Cooling

Dimension



Efficiency

Battery (V)	PV (kW)	Battery discharge (kW)	System Eff (%)	Battery (V)	PV (kW)	Battery discharge (kW)	System Eff (%)
150	2.2	3.5	96.3%	450	2.0	8.8	97.4%
	4.0	3.5	96.8%		4.0	6.8	97.4%
	6.0	3.4	96.8%		8.0	2.9	97.3%
	10.2	0.7	97.3%		10.0	0.9	97.3%
250	2.6	5.8	97.0%	550	2.0	8.8	97.5%
	4.0	5.9	97.2%		4.0	6.8	97.5%
	8.2	2.6	97.4%		8.0	2.8	97.4%
	10.0	0.8	97.3%		10.0	0.8	97.3%
350	2.7	8.2	97.4%	600	2.1	8.7	97.6%
	4.1	6.7	97.5%		4.1	6.7	97.5%
	8.1	2.8	97.4%		8.1	2.7	97.3%
	9.9	0.9	97.4%		10.1	0.8	97.2%