



ES6KW-HY-P
INVERTER / CHARGER

SPECIFICATIONS

MODEL	ES6KW-HY-P
RATED OUTPUT POWER	6000W
PV INPUT (DC)	
Max. PV Power	6000W
Max. PV Array Open Circuit Voltage	500 VDC
PV Input Voltage Range	120 VDC~500 VDC
MPPT Range @ Operating Voltage	120 VDC~430 VDC
Max. PV Array Short Circuit Current	27A
Number of MPP Tracker	1
GRID-TIE OPERATION	
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Feed-in Grid Voltage Range	195.5~253 VAC @India regulation 184 ~ 264.5 VAC @Germany regulation 184 ~ 264.5 VAC @South America regulation
Feed-in Grid Frequency Range	49~51Hz @India regulation 47.5~51.5Hz @Germany regulation 57~62Hz @South America
Nominal Output Current	26A
Power Factor Range	>0.99
Maximum Conversion Efficiency (DC/AC)	95%
OFF-GRID, HYBRID OPERATION	
GRID INPUT	
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC
Frequency Range	50 Hz/60 Hz (Auto sensing)
Transfer Time	< 10ms (For UPS) < 20ms (For Home Appliances) < 50ms (For parallel operation)
Rating of AC Transfer Relay	40A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Waveform	Pure Sine Wave
Efficiency (DC to AC)	93%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Charging Current (from Grid)	120A
Maximum Charging Current (from PV)	120A
Maximum Charging Current	120A
GENERAL	
Dimension, D X W X H (mm)	140 x 295 x 468
Net Weight (kgs)	12
INTERFACE	
Parallel-able	Yes
External Safety Box (Optional)	Yes
Communication	RS232/Dry-Contact/WiFi
ENVIRONMENT	
Humidity	0 ~ 90% RH (No condensing)
Operating Temperature	-10°C to 50°C