

PRO HYBRID INVERTER

ES3KW



Power Factor 1



Max PV Array
4500 W / 6000 W



MPPT Range
120~430 VDC



Solar Charge
Current 60 A / 120 A



Lithium
Compatible

Yes



Wifi

Built-in



Detachable
Screen

Yes

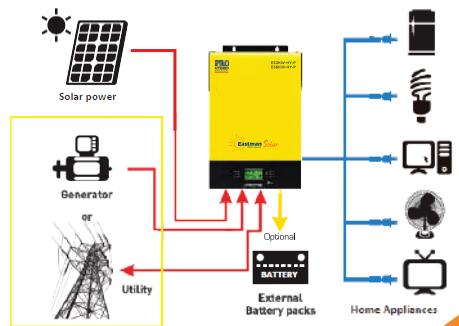


Parallel
Function

Yes
upto
9 units

Special Features

- ✓ Pure sine wave output
- ✓ Self - consumption & Feed-in to the grid
- ✓ Built-in MPPT solar charger
- ✓ Programmable supply priority for PV, Battery or Grid
- ✓ User-adjustable charging current & voltage
- ✓ Programmable multiple operation modes: Grid-tie, off-grid & grid-tie with backup
- ✓ Detachable LCD panel
- ✓ Built-in Wifi for mobile monitoring (APP is available)
- ✓ Supports USB on-the-go function
- ✓ Reserve BMS communication
- ✓ Parallel operation up to 9 units



MODEL	ES3KW-HY-P	ES6KW-HY-P
Phase	1-phase in / 1-phase out	
Maximum PV Input Power	4500W	6000W
Rated Output Power	3000W	6000W
Maximum Charging Power	3000W	6000W
GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC	120VDC / 150 VDC
MPPT Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13A	1 / 27A
GRID OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC	
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)	
Nominal Output Current	13A	26A
Power Factor	> 0.99	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	95%	
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC	
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
Maximum AC Input Current	40 A	40 A
PV INPUT (DC)		
Maximum DC Voltage	500 VDC	500 VDC
MPPT Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13A	1 / 27A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC	
Output Waveform	Pure sine wave	
Efficiency (DC to AC)	93%	93%
HYBRID OPERATION		
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC	120VDC / 150 VDC
MPPT Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13A	1 / 27A
GRID OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC	
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)	
Nominal Output Current	13A	26A
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC	
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC	
Maximum AC Input Current	40 A	40 A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC	
Efficiency (DC to AC)	93%	93%
BATTERY & CHARGER		
Nominal DC Voltage	48 VDC	
Maximum Solar Charging Current	60 A	120 A
Maximum AC Charging Current	60 A	120 A
Maximum Charging Current	60 A	120 A
GENERAL		
PHYSICAL		
Dimension D x W x H (mm)	140 x 295 x 468	140 x 365 x 468
Net Weight (kgs)	11	14
INTERACE		
Parallel Function	Yes, 9 units	
Communication Port	USB, RS-232, Dry Contact and WiFi	
ENVIRONMENT		
Humidity	0 ~ 90% RH (No condensing)	
Operating Temperature	-10°C to 50°C	

Product specifications are subject to change without further notice.

