

Eco Hybrid Solar Inverter

Dual Output 4.4/5.5kW/6.6kW



• IP65



High Performance

200% PV oversizing and up to 110% AC output.
200% peak EPS power for 60s.^①
Max. 135A charging / discharging current.
80V low start-up voltage for longer operation.



Assured Reliability

Battery terminal temperature detection.
IP65 protection degree.
Type II SPD on AC&DC side.
Afford 350Vac grid fluctuations.



Smart Management

Smart loads management.
<4ms UPS level transfer time.
6-time-slot battery management



Flexible Adaptability

Max. 3pcs parallel for on-grid and off-grid.
Support storing energy from generator.

① :With output voltage regulation of load Power.

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Model	EHI-1P4K4-PD		EHI-1P5K5-PD		EHI-1P6K6-PD	
Max.PV access power	7500 W		9200 W		911250 W	
Max.PV Input Power	6000 W		7500 W		9000 W	
Max.PV Input Voltage			500V			
Start-up Voltage			90V			
MPPT Voltage Range	40~450 V				60~450 V	
Max.Operating PV Input Current	20 A				20 A + 20 A	
Max.Input Short Circuit Current	22 A				22 A + 22 A	
Number of MPPT Trackers/String Per MPPT Tracker	'1 / 1				'2 / 1+1	
AC Input						
Nominal voltage	208 / 220 / 230 / 240; L + N + PE					
Voltage Range	90~280±3 (Normal mode); 170~280±3 (UPS mode)					
Frequency	50 / 60Hz (Auto Adaptive)					
Load Output Port Data	4400 VA / 4400 W		5500 VA / 5500 W		6600 VA / 6600 W	
Rated Capacity With PV	3600 VA / 3600 W		5000 VA / 5000 W		6000 VA / 6000 W	
Rated Capacity Only Battery	10800 VA		15000 VA		18000 VA	
Surge Power	Pure Sine Wave					
Waveform	208 / 220 / 230 / 240; L + N + PE					
Output Voltage Rage	1					
Power Factor	50 / 60Hz ±0.1%					
Nominal Frequency	10ms UPS mode / 10ms Appliance mode					
Transfer Time	1 min@102%~120%load, 10 s>120% load, 200 ms @>200% load					
Overload Protection	96.00%					
Peak Efficiency PV to INV	94.00%					
Peak Efficiency Battery to INV	3 Unit (1P & 3P)					
Parallel						
Battery Specifications	Lithium and Lead-acid					
Battery Type	24 V / 20~30 V				48 V / 40~60 V	
Battery Voltage /Range						
Over Charge Protection	Current Limitation					
Charging Method	TWO /Three/ Auto Settable					
Charger (AC/ PV)						
Charging Voltage	FV MODE: 27V settable: 26.6~27.8V CV MODE: 28.2V settable: 28~29V		FV MODE: 54V Settable: 53.2~55.6V CV MODE: 56.4V Settable: 56~58V			
Battery Over Voltage	30.5V				61V	
Charging Current	2~135A		2~120A		2~135A	
Max. Discharge Current	135 A		120 A		135 A	
Max. Charge Current@PV/AC/PV+AC	120A/120A/135A		120A/120A/120A		135A/135A/135A	
Physical						
Built-in Power Booster	Yes					
Dimensions, H×W×D (mm)	427.5 x 306 x 175.7 mm					
Package Dimensions, H×W×D (mm)	493 x 463 x 196 mm					
Net Weight (Kg)	19 kg					
Communication Interface	RS485 / RS232 / USB					
Interface						
Display	Colorful 3.5 inch LCD+LED					
Communication Interface	RS232, RS485, CAN					
Monitor Mode	WIFI / 4G					
General Data						
Over Voltage Category	OVC II (DC), OVC III(AC)					
Ingress Protection	IP65					
Operating Temperature Range	-10 °C~ 60 °C					
Storage Temperature	-15 °C~ 60 °C					
Humidity	5% ~ 90% (Non-condensing)					
Warranty	5 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy					
Type of Cooling	Intelligent Air Cooling					
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2					