

Hybrid Inverter

EHD series

6-12KW / 4MPPT / Split phase / High voltage

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Features

- Quick @ easy to install
- Smart energy management
- IP65 protection design for outdoor use
- User friendly APP interface via Wi-Fi module
- UPS level switching 10ms
- Max. charging/discharging current of 50A
- 1.5 time rating power PV input upto 18000W
- MPPT voltage range 90-550V dc
- Max operation PV current 16A
- Highest safety standards for DC side , include in-built type II SPD and optional AFCI function
- Split diesel generator terminal,support storing energy and smart load output
- CT and NET Metering function,
- Zero export function
- 5 Years warranty

Technical Specifications

Models	6K	8K	10K	12K
Back-up Nominal Apparent Power (VA)	6000	8000	10000	12000
Battery Voltage Range (V)	85-450/310			
Battery Input Data				
Battery Type	Lithium			
Charging mode	Three-stage charging mode or Self-adaption to BMS			
Max. Continuous Charging/Discharging Current (A)	50			
PV String Input Data				
Max. Input Power (W)	9000	12000	15000	18000
Max. Input Voltage (V)	580			
MPPT Operating Voltage Range (V)	90-550			
Start-up Voltage (V)	100			
Nominal Input Voltage (V)	360			
Max. Input Current per MPPT(A)	16			
Max. Short Circuit Current per MPPT(A)	19.2			
Number of MPPTs/Number of Strings per MPPT	3/1	3/1	4/1	4/1
AC Output Data (On-grid)				
Nominal Apparent Power Output to Utility Grid (VA)	6000	8000	10000	12000
Nominal Output Voltage (V)	110-120 / 220-240 Split Phase			
Nominal AC Grid Frequency (Hz)	50/60			
Nominal AC Current Output to Utility Grid (A)	25	33.3	41.7	50
Max. AC Current From Utility Grid (A)	50	66.6	80	80
Power Factor	0.99 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	<3%			
AC Output Data (Back-up)				
Nominal Output Apparent Power (VA)	6000	8000	10000	12000
Peak Power (VA),Time(s)	1.5 times of rated power, 60s			
Over Power (VA),Time(s)	1.25 times of rated power, 300s			
Nominal Output Current (A)	25	33.3	41.7	50
Nominal Output Voltage (V)	110-120 / 220-240 Split Phase			
Nominal Output Frequency (Hz)	50/60 (±0.5%)			
Output THDv (@Linear Load)	<3%			
Efficiency				
Max. Efficiency	97.6%	97.7%	97.8%	98%
European Efficiency	97.2%	97.3%	97.3%	97.5%
Max. Battery to AC Efficiency	96.5%	97%	97%	97.5%
MPPT Efficiency	99.9%			
General Data				
Protection	<ul style="list-style-type: none"> • PV Insulation Resistance Detection • Residual Current Monitoring • PV Reverse Polarity Protection 	<ul style="list-style-type: none"> • Anti-islanding Protection • Grid monitoring protection • AC Overcurrent Protection 	<ul style="list-style-type: none"> • AC Short Circuit Protection • PV Rapid Shutdown Control • Over temperature protection 	
Surge protection	DC Type II / AC Type III			
AFCI	Optional			
Automatic Generator Start	2 Wire Start - integrated			
Operating Temperature Range (°C)	-25~60(Derating above 45°C)			
Relative Humidity	5%~95%			
Max. Operating Altitude (m)	4000,(Derating above 2000)			
Cooling Method	Nature Convection			
Display	LCD/LED & APP			
Communication with BMS	RS485/CAN			
Communication with Meter	RS485			
Communication with Portal	WiFi/Bluetooth(External)			
Weight (Kg)	/			
Dimension W×H×D (mm)	/			
Noise Emission (dB)	<35			
Self-consumption at Night (W)	<20			
Ingress Protection Rating	IP65			
Certification	UL1741, CSA C22.2 NO.107.1:2021、UL1699B、NEC690.12、NEC690.4B&NEC705.4/6、FCC Part 15 ClassB, CPUC RULE 21、HECO Rule 14H、UL1741SB、IEEE 1547.1:2018、IEEE 1547.1:2020UL1998:2018			
Mounting Method	Wall Bracket			