



HEP-D series

HEP3048D/HEP4048D/HEP5048D

Excellent Output capability

- Capable of being grid-interactive or grid-independent
- 10% over power support for 10s
- Hybrid input with PV and battery for safety output

UPS Function Available

- UPS function with 10 ms automatic switchover
- Enhanced dynamic MPPT algorithm, ensure real-time and accurate

Easy Operation, Intelligent Monitoring

- Support GPRS, WIFI and DRM0 remote intelligent monitoring system
- USB flash disc for program update

Inverter	HEP3048D	HEP4048D	HEP5048D
INPUT(DC)			
Max. DC Input Power [W]	4600w/2300w	5000w/2500	5600w/2800w
Max. DC Voltage [V]	550	550V	550V
Operating MPPT Voltage Range [V]	100-500	100-500	100-500
Operating MPPT Voltage Range [V]	210-440	230-440	255-440
Star Up Voltage/Initial Feeding Voltage [V]	70/150	70/150	70/150
Turn off Voltage [V]	60	60	60
Max. DC Current per Tracker [A]	12		
Number of independent MPP inputs/strings per MPP input	2/1		
Max. Power per Tracker [W]	2000	2500	3000
Output(AC)			
Rated power[W]	3000	4000	5000
Max. AC apparent power[AV]	3000	4000	5000
Nominal AC voltage range[V]	187 - 270	187 - 270	187 - 270
Nominal Frequency [Hz]*	50 / 60	50 / 60	50 / 60
Frequency Range [Hz]	45 - 55 / 55 - 65	45 - 55 / 55 - 65	45 - 55 / 55 - 65
Max. AC Current [A]	17.5	22	25
Power Factor	0.9i - 0.9c	0.9i - 0.9c	0.9i - 0.9c
Total Harmonic Distortion (THD)	<3%	<3%	<3%
Efficiency			
Max. Efficiency	97.60%	97.60%	97.60%
Euro Efficiency	97%	97%	97%
Max. Battery Charging/Battery Discharging Efficiency	94.3%/94%	94.3%/94%	94.3%/94%
MPPT Efficiency	99.9%	99.9%	99.9%
Loss at Standby / Loss at Night	<5W / <0W	<5W / <0W	<5W / <0W
Battery			
Battery Type	Li-ion		
Nominal Battery Voltage[V]	48		
Battery voltage range[V]	38-60		
Max. Charge/Discharge Power[W]	3000/3000	4000/4000	4200/5000
Max. Charge/Discharge Current[A]	60/60	80/80	80/100
BMS Communication Port	CAN2.0 / RS485		
Protective devices			
Array ground insulation resistance monitoring	Yes		
Ground fault monitoring/grid monitoring	Yes		
Array polarity reverse protection	Yes		
High-pole sensitive residual current monitoring	Yes		
Anti-island protection	yes		
Surge protection	Yes		
Protection Class	I		
Overvoltage Category	PV II / Mains III		
General data			
Dimensions(W/H/D)[mm]	445*630*215	445*630*215	445*630*215
Weight of inverter[Kg]	28	29.5	30
Battery/PV/AC connection	Fastening screw		
Mounting	Wall bracket		
Features			
Display	LCD, CapSense key		
Interface: Speedwire/Webconnect	RS485/Digital IO		
Operating temperature range	-25 ~ +60, derating when temperature>45℃		
Noise emission[dB]	<35		
Topology	High frequency isolation		
Cooling method	Natural Convection		
Degree of protection inverter/battery section	IP65		
Max. Altitude (above sea level) [m]	<2000		
Maximum permissible value for relative humidity	0 - 95%,non condensing		
Certificates and approvals	AS 4777.2, C10/11, CE, CEI 0-21, EN 50438, G59/3-4, G83/2-1, DIN EN 62109 / IEC 62109, EN50438, RD1699,, VDE-AR-N 4105, VDE0126-1-1,IEC 61727, IEC 62116		
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