



VOLTAS

6K-H4 / 8K-H4 / 10K-H4

Dual MPPT-Dual output

Product Features

- Colorful 5-inch touch LCD, IP65 protection degree
- Supports up to 12 units in parallel
- Support on/off grid mode switch, EPS output
- Support battery charging/discharging according to the time setting
- Independent AC input port for diesel generator
- Support storing energy from diesel generator
- ARC fault detection optional

Single Phase Hybrid Inverter

Technical Data				
Model	Voltas-6K-H4		Voltas-8K-H4	Voltas-10K-H4
Battery Input Data				
Battery Type	Lead-acid or Li-Lon			
Battery Voltage Range (V)	40-60			
Max. Charge Current (A)	140	190	210	
Max. Discharge Current (A)	140	190	210	
Charging Curve	3 Stages/Equalization			
External Temperature Sensor	Yes			
Charging Strategy for Li-Ion Battery	Self-Adaption to BMS			
PV string Input Data				
Max. DC Input Power (W)	9,000	12,000	15,000	
PV Input Voltage (V)	370(125~500)			
MPPT Range (V)	150~425			
Start-up Voltage (V)	120			
PV Input Current (A)	17+17	34+17	34+34	
Max. PV Isc (A)	20+20	40+20	40+40	
No. of MPPT Trackers	2	2	2	
No. of String Per MPPT Tracker	1+1	2+1	2+2	
AC Output Data				
Rated AC Output Power and UPS Power (W)	6,000	8,000	10,000	
Max. AC Output Power (W)	7,200	9,600	12,000	
Peak PoWer(off grid)	2 times of rated power, 10s		1.8 times of rated power, 10s	
AC Output Rated Current (A)	27.3/26.1	34.5/33	45.5/43.5	
Max. AC Current (A)	30/28.7	40/38.3	50.0/47.8	
Max. Continuous AC Passthrough (A)	40	50	60	
Power Factor	0.8 leading to 0.8 lagging			
Output Frequence and Voltage	50/60Hz,220/230Vac(single phase)			
Grid Type	single phase			
Current Harmonic Distortion	THD<3%(Linear load <1.5%)			
Efficiency				
Max. Efficiency	96.60%			
Euro Efficiency	96.00%			
MPPT Efficiency	99%			
Protection				
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection			
PV ARC Fault Detection	Optional			
Output Over Voltage Protection	DC Type II/AC Type III			
Certification and Standards				
Grid Regulation	CEI 0-21,VDE-AR-N 4105,NRS 097,IEC61727,G99,G98,VDE 0126-1-1,RD 1699,C10-11			
EMC/Safety Regulation	IEC/ED 62109-1 IEC/EN 62109-2,IEC/EN 61000-6-1,IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4			
General Data				
Operating Temperature Range()	-45~60,> 45 Derating			
Cooling	Smart cooling			
Noise(dB)	≤45			
Communication with BMS	CAN, RS485			
Weight (kg)	34			
Dimensions (mm)	567W×467H×292D			
Protection Degree	IP65			
Installation Style	Wall-mounted			
Warranty	5 Years			



VOLTAS

12K-H4 / 14K-H4

Dual MPPT-Dual output

Product Features

- Colorful 7-inch touch LCD, IP65 protection degree
- Supports up to 12 units in parallel
- 100% unbalanced output, each phase max. output up to 50% rated
- Support on/off grid mode switch, EPS output
- Support battery charging/discharging according to the time setting
- Independent AC input port for diesel generator
- Support storing energy from diesel generator
- ARC fault detection optional

Three Phase Hybrid Inverter

Technical Data		
Model	Volats-12K-H4	Volats-14K-H4
Battery Input		
Battery Type	Lead-acid or Li-Lon	
Battery Voltage Range (V)	40-60	
Max. Charge Current (A)	250	280
Max. Discharge Current (A)	250	280
Charging Curve	3 Stages/Equalization	
External Temperature Sensor	Yes	
Charging Strategy for Li-Ion Battery	Self-Adaption to BMS	
PV String Input		
Max. DC Input Power (W)	18,000	20,000
PV Input Voltage (V)	650(160~800)	
MPPT Range (V)	200~700	
Full Load DC Voltage Range (V)	260~650	
Start-up Voltage (V)	160	
PV Input Current (A)	26+17	26+17
Max. PV Isc (A)	34+20	34+20
No. of MPPT Trackers	2	
No. of Strings per MPPT Trackers	2+1	2+1
AC Output		
Rated AC Output and UPS Power (W)	12,000	14,000
Max. AC Output Power (W)	13,200	15,400
Peak PoWer(off grid)	2 times of rated power, 10s	1.8 times of rated power, 10s
AC Output Rated Current (A)	18.2/17.4	21.1/20.3
Max. AC Current (A)	27.3/26.1	27.6/26.4
Max. Continuous AC Passthrough (A)	50	50
Power Factor	0.8 leading to 0.8 lagging	
Output Frequency and Voltage (V)	50/60Hz, 380/400Vac(Triple phase)	
Grid Type	Three phase	
Current Harmonic Distortion	THD<3%(Linear load<1.5%)	
Efficiency		
Max. Efficiency	96.60%	
Euro Efficiency	96.00%	
MPPT Efficiency	99.00%	
Protection		
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection	
PV ARC Fault Detection	Optional	
Output Over Voltage Protection	DC Type II/AC Type III	
Certifications and Standards		
Grid Regulation	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699,C10-11	
Safety Regulation	IEC/EN62109-1, IEC/EN62109-2	
EMC	IEC/EN 61000-6-1,IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4	
General Data		
Operating Temperature Range ()	-45~60, >45 Derating	
Cooling	Smart Cooling	
Noise (dB)	≤45	
Communication with BMS	CAN, RS485	
Weight (kg)	44	45
Dimensions (mm)	510W×630H×290D	
Protection Degree	IP65	
Installation Style	Wall-mounted	
Warranty	5 Years	

Battery Pack

MAXPOWER MP 5000



Product Features

- High inverter compatibility
- Safe LiFePO4 rechargeable battery
- Support Max. 15pcs batteries in parallel
- Higher usable energy ratio, less self-consumption
- Without toxic heavy metal or caustic materials

Technical Data	
Model	MAXPOWER MP 5000
Nominal Energy (Wh)	5,120
Usable Energy (Wh)	4,600
Nominal Capacity (Ah)	100
Nominal Voltage (V)	51.2
Operation Voltage Range (V)	40~58.4
Standard Charge Current (A)	50
Standard Discharge Current (A)	50
Max. Charge Current (A)	50
Max. Discharge Current (A)	100A@(25°C±2°C)
Max. Parallel Quantities	15
Operation Temperature	Charge Temperature: 0°C~55°C Discharge Temperature: -20°C~55°C
Working Humidity	20~80%RH
Protection Level	IP21
Dimension (mm)	435Wx450Dx177H
Net Weight (kg)	52
Installation	Rack mounted indoor
Certification	CE, UN38.3
Communication	CAN, RS485
Lifetime	6, 000 Cycles@80% DOD
Warranty	5 years