



VOLTAS 8K-H4

COMPARISON WITH OTHER BRANDS

Features	Voltas	Other Brand
Max. PV Input	12KW	10.4KW
Max. AC Output Power	9.6 KW	8.8KW
Max. Parallel Units	10	5
Max. Battery Capacity	50KWh	20KWh
Price	Lower	Higher

Technical Data			
Model	Voltas-6K-H4	Voltas-8K-H4	Voltas-10K-H4
Battery Input Data			
Battery Type	Lead-acid or Li-Ion		
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	Optional		
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	26+26	26+26
Max. PV Isc (A)	20+20	34+34	34+34
No. of MPPT Trackers	2	2	2
No. of String Per MPPT Tracker	1+1	2+2	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 Frequency and Voltage	50/60Hz,220/230Vac(single phase)		
Grid Type	single phase		
Current Harmonic Distortion	THD<3%(Linear load <1.5%)		
Efficiency			
Max. Efficiency	97.90%		
Euro Efficiency	96.90%		
MPPT Efficiency	99.90%		
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/EN 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(°C)	-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		