

Technical Data

Model	Volats-12K-H4	Volats-14K-H4
Battery Input		
Battery Type	Lead-acid or Li-Ion	
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	Optional	
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	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	
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-II	
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 (°C)	-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	