

# VOLTAS 6K-H4

## COMPARISON WITH OTHER BRANDS



| Features                           | Voltas | Other Brand |
|------------------------------------|--------|-------------|
| Max. PV Input                      | 9KW    | 7.8KW       |
| Max. PV Input Current              | 17A    | 13A         |
| Max. PV Isc                        | 20A    | 17A         |
| Max. AC Output Power               | 7.2 KW | 6.6KW       |
| Max. Battery Charging Current      | 140 A  | 135A        |
| Max. Parallel Units                | 10     | 5           |
| Max. Battery Capacity              | 40 KWh | 20KWh       |
| NTC Cable for Battery Temp Sensing | Yes    | No          |
| Price                              | Lower  | Higher      |



UAN: 042-111-441-441



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| 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                                                                                                                                                                                                                           |              |                               |