

ENSERVER

TECHNICAL DATA SHEET

50KW-500VDC



Performance Specifications

| | |
|-------------------------------|-------------------------|
| MODEL | 50 KW |
| Noise(dB) | ≤45 dB |
| Communication with BMS | RS485; CAN |
| Cooling | Intelligent air cooling |

Battery Input Data

| | |
|--------------------------------------|----------------------|
| Battery Voltage Range(V) | 160~800 |
| Max. Charging Current(A) | 100A |
| Max. Discharging Current(A) | 100A |
| Number of Battery Input | 2 |
| Charging Strategy for Battery | Self-adaption to BMS |

PV Input

| | |
|---------------------------------------|---------|
| Max. DC Input Power(W) | 65000 |
| Max. DC Input Voltage (V) | 1000 |
| MPPT Range(V) | 180 |
| Start-up Voltage(V) | 150-850 |
| Full Load DC Voltage Range (V) | 450-850 |
| Rated DC Input Voltage (V) | 600 |
| PV Input Current(A) | 144 |
| Max.PV Isc(A) | 220 |
| No. of MPPT Trackers | 4 |

AC Output Data

| | |
|---|--------------------------------------|
| Rated AC Output and UPS Power(W) | 50000 |
| Max. AC Output Power(W) | 55000 |
| Peak Power(off grid) | 1.5 time of rated power, 10S |
| AC Output Rated Current(A) | 75.8/72.5 |
| Max. AC Current(A) | 83.4/79.8 |
| Max. Three-phase Unbalanced Output Current (A) | 83.3 |
| Max. Continuous AC Pass through(A) | 150 |
| Power Factor | 0.8 leading to 0.8 lagging |
| Output Frequency and Voltage | 50/60Hz; 3L/N/PE 220/380, 230/400Vac |

| | |
|---|--------------------------|
| Grid Type | Three Phase |
| DC injection current (mA) | <0.5% I_n |
| Efficiency | |
| Max. Efficiency | 97.60% |
| Euro Efficiency | 97.00% |
| MPPT Efficiency | >99% |
| Protection | |
| PV Input Lightning Protection | Integrated |
| Anti-islanding Protection | Integrated |
| PV Input Lightning Protection | Integrated |
| Insulation Resistor Detection | Integrated |
| Residual Current Monitoring Unit | Integrated |
| Output Over Current Protection | Integrated |
| Output Shorted Protection | Integrated |
| Output Over Voltage Protection | DC Type II / AC Type III |
| Battery Over Current Protection | Fuses |
| Mechanical Dimensions | |
| Size(mm) | 527W×894H×294D |
| Weight(kg) | 75 |
| Installation Style | Floor Mounted |