

ENSERVER 50KW 500VDC

TECHNICAL DATE SHEET



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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

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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, 10 S
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%1n

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

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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