

# ENSERVER

## TECHNICAL DATA SHEET

50KW-500VDC

Manufactured by



## Performance Specifications

<b>MODEL</b>	50 KW
<b>Noise(dB)</b>	≤45 dB
<b>Communication with BMS</b>	RS485; CAN
<b>Cooling</b>	Intelligent air cooling

## Battery Input Data

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

## PV Input

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

## AC Output Data

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

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