

# ENSERVER

## TECHNICAL DATA SHEET

100KW-500VDC



Model   100KW	
AC (On-Grid)	
Apparent Power	110kVA
Rated Power	100kW
Rated Voltage	400V
Rated Current	144A
Voltage Range	360V-440V
Rated Frequency	50/60Hz
Frequency Range	45~55/55~65Hz
THDI	<3%
PF	0.8 lagging~0.8 leading
AC Connection	3/N/PE
AC (Off-Grid)	
Apparent Power	110kVA
Rated Power	100kW
Rated Voltage	400V
Rated Current	144A
Voltage Range	360V-440V
Rated Frequency	50/60Hz
Overload Capability	110%-10 mins 120%-1 min
THDI	≤2% linear
DC (Battery and PV)	
Rated Power	100kW
Current regulation	±1%
Voltage Regulation	±1%
Voltage Ripple	<3%
Current Ripple	<2%
Voltage range	500V-820V
Max. Charge/Discharge Current	220A

General Information	
Maximum Efficiency	97.10%
Protection Degree	IP20
Noise Emission	<65dB(A)@1m
Operating Temperature	-25°C~+55°C
Cooling Method	Forced-air
Relative Humidity	0-95% Non-Condensing
Maximum Altitude	6000m Derate Above 3000m
Dimension(W/H/D)	1100/1890/850mm
Weight	820kg
Build-in Transformer	Yes
Lightning Protection	Type II
Transfer Between On/Off grid	Manual (Default), Automatic (Optional), ≤10ms
Communication	
Display	Touch Screen
Communication	RS485/CAN
Certificate	
CE, MEA, PEA, EN 61000-6-4:2007+A1:2011, EN61000-6-2:2005, EN62109-1:2010, EN62109-2:2011, NRS 097-2-1:2017, VDE 0126, UTE-C, 15-712, EN 50549-1:2019, PSE:2018-12	