# ENSERVER 150KW 500VDC
# TECHNICAL DATA SHEET

## FEATURES

- All in one hybrid inverter

Energy storage system, load, grid, solar connection all supported

- Programmable working mode

Peak-shaving, back-up, use the system however you want it

- Scalable design

Doubled capacity by paralleling 2 units

- Touchscreen LCD

More convenient for parameter setting and maintenance

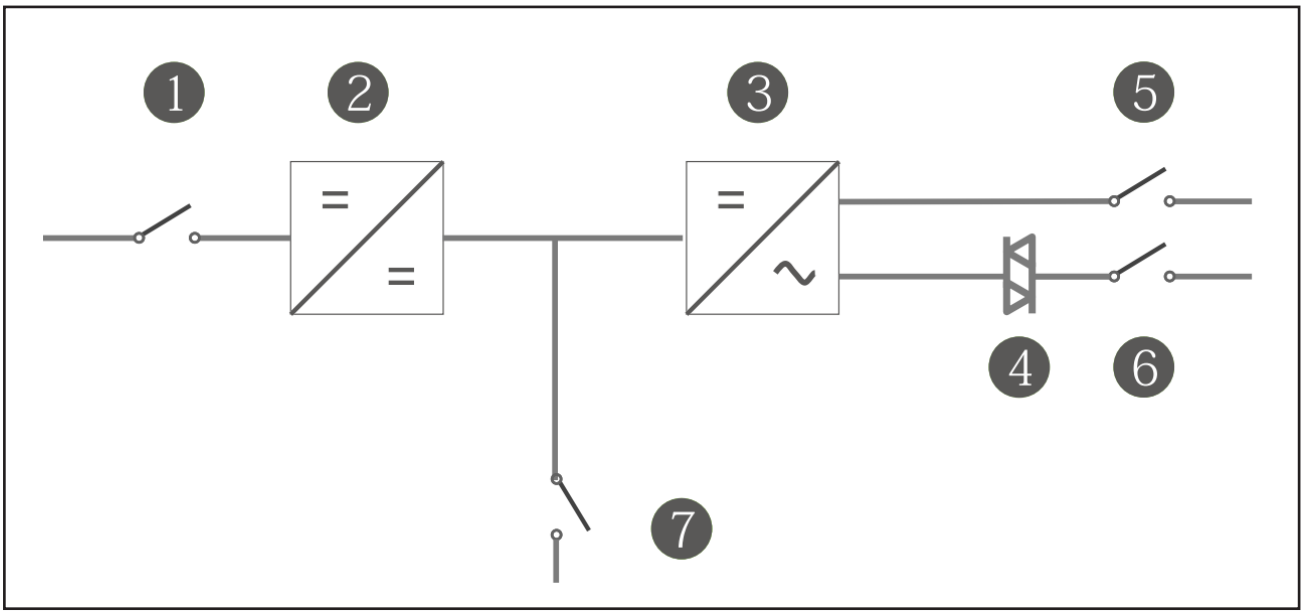
- Seamless transfer

Uninterpretable power supply guaranteed

- Dry contact output

Supports remote control of DG

## BLOCK DIAGRAM




**1. PV breaker**

**2. PV controller**

**3. Bidirectional Inverter**

**4. Transfer switch**

**5. Load breaker**

**6. Grid breaker**

**7. Energy storage system breaker**

| MODEL | 150KW |
|---|---|
| **AC(ON-GRID)** | |
| Apparent power | 165kVA |
| Rated power | 150kW |
| Rated voltage | 400V |
| Rated current | 217A |
| 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 | 165kVA |
| Rated power | 150kW |
| Rated voltage | 400V |
| Rated current | 217A |
| THDU | ≤2% linear |
| Rated frequency | 50/60Hz |
| Overload capability | 110%-10 mins 120%-1 min |

| DC (ENERGY STORAGE SYSTEM AND PV) | |
|---|---|
| Max PV Open-circuit voltage | 1000 VDC |
| Recommended PV power | 150kWp |
| PV MPPT voltage range | 480VDC-800VDC |
| Recommended nominal ESS voltage | 420V |
| ESS voltage range | 352-600V |
| Max. charge/discharge power | 150kW |
| Max. charge/discharge current | 425A |
| **GENERAL INFORMATION** | |
| 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<br>(derate above 3000m) |
| Dimension(W/H/D) | 1400/1900/800mm |
| Weight | 1250kg |
| Build-in transformer | Yes |
| Transfer between on/off grid | Automatic≤10ms |
| Standby consumption | <30W |

| 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 | |