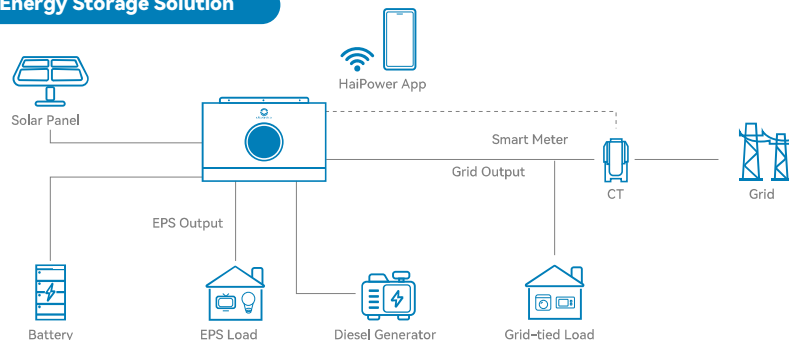




Features

- ⚡ Oversizing Ratio**
 Higher PV/AC ratio up to 1.5, allowing greater energy harvest
- 📁 Exceptional Load-carrying Capability**
 Support battery discharge current of up to 280A
 Support higher loads powered by battery only
- 🔌 Parallel Connection**
 Support parallel connection up to 9 units
- 🔊 Powerful Instant Overload Capacity**
 Support 2 times the rated power for 5 seconds in off-grid mode
- OUT Smart Load Management**
 Dual AC outputs to power loads on demand priority
- 🔌 Generator Input**
 Equipped with GEN port to connect with diesel generator
- 🔄 Seamless Switchover**
 UPS-level switching time < 4ms
- 🔥 Superior High-Temperature Stability**
 Allow full-power output up to 12kW under high-temperature conditions

Energy Storage Solution



Specifications

Model	LVTS-12KW-HYD
Solar Input Data	
Recommended Max. PV Array Size	24000W
Max. PV Input Power	18000W
Max. Input Voltage	500V
Start-up Voltage	90V
MPPT Voltage Range	90~450V
Max. Input Current per MPPT	30+30A
Max. Short Circuit Current per MPPT	44+44A
Number of MPPT	2
Number of Strings per MPPT	2
Battery Data	
Battery Type	Li-Ion / Lead-acid
Nominal Battery Voltage	48V
Battery Voltage Range	40~60V
Max. Discharge Current	280A
Max. Charge / Discharge Power	12000W
Li-Ion Battery Activation	Yes
Li-Ion Battery Communication	CAN / RS485
Max. Solar Charge Current	250A
Max. AC Charge Current	210A
Max. Charge Current (PV+AC)	250A
AC Input Data (Grid / GEN)	
Nominal Input Voltage	230Vac, L / N / PE
Input Voltage Range	90~280(APL) / 170~265(UPS)
Max. AC Current From Utility Grid	70A
Max. Apparent Power from Utility Grid	12000VA
Max. AC Current From Generator	60A
Max. Apparent Power From Generator	12000VA
AC Frequency Range	50 / 60Hz (Auto sensing)
Inverter Output Data	
Nominal Output Power	12000W
Peak Apparent AC Power	24000VA
Nominal AC Voltage	230Vac
Nominal Grid Frequency	50 / 60Hz
Voltage Waveform	Pure Sine wave
Transfer Time	4ms
Max. Output Current	52.2A
Overload Protection	30s@102%-110% load; 10s@110%-130% load; 5s@130%-200% load
THDv (@linear load)	<5%
Efficiency	
Peak Efficiency	94%
MPPT Efficiency	>99.9%
Protection	
PV Reverse Polarity Protection	yes
AC Short-circuit Current Protection	yes
Grid Monitoring	yes
Over-current Protection	yes
Over-voltage Protection	yes
AC Surge Protection	yes
DC Surge Protection	yes
System Parameters	
Dimension (W*H*D)	625*400*120mm
Weight	17.9kg
Relative Humidity	5%~95% (Non-condensing)
Operating Temperature Range	-10°C~60°C
Noise Emission	<50dB
Altitude	2000m
Cooling Method	Fan Cooling
Ingress Protection	IP21
Characteristic	
Number of AC Output	2
Display	LCD & APP
Communication Interface	RS485 / USB / CAN / Wi-Fi (built-in) Dry-Contact
Parallel Capability	9