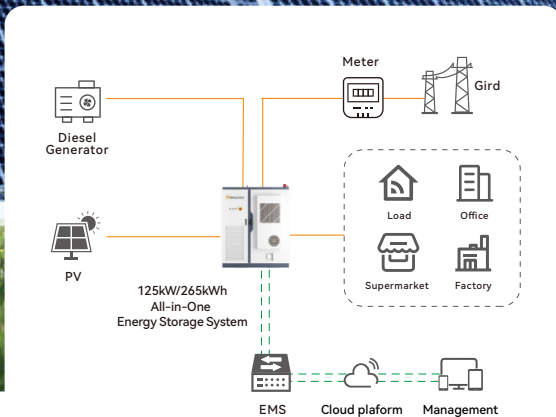


Dawnice Integrated PV-Storage -Genset Hybrid System

125kW/265kWh

Intelligent Energy Management Platform



Features



Advanced Battery Safety System

- Triple-layer protection architecture
- Real-time fault diagnosis
- Multi-level thermal runaway prevention



Integrated Fire Protection

- Multi-sensor early warning
- Automatic aerosol suppression
- <500ms response time



Flexible Load Management

- 3P4W unbalanced load support
- Dynamic phase compensation
- 0.9 leading/lagging PF adjustment



Intelligent Power Management

- High-precision SOC/SOH monitoring
- Adaptive charge/discharge control
- ≥99.9% system availability



Multi-Energy Integration

- Seamless PV/diesel/grid coupling
- Automatic source transfer (≤20ms)
- Hybrid power scheduling



Multi-Mode Operation

- Grid-connected/Islanding/Hybrid modes
- Black start capability
- Microgrid interoperability

Model	HZEB-HCT-125TS/265
Battery Parameters	
Battery Type	LiFePO4
Configuration	1P264S
Rated Battery Voltage	844.8V DC
Battery Voltage Range	739.2~950.4V DC
Rated Battery Energy	265.267kWh
Max Charge/Discharge Rate	0.5C
Cycle Life	8000 times (@25°C,0.5C,90%DOD,70%EOL)
PV input Parameters	
Max Input Power	120kW
PV Open-circuit Voltage	200~900V
MPPT Voltage Range	200~700V
Start-up Voltage	250V
AC (On Grid)	
Rated Power	125kW
Output Voltage	230/400V AC
Grid Frequency	50/60Hz
Grid Connection Form	(3W+N+PE) Three-phase four-wire
Power Factor	0.99
Power Factor Range	1 (leading) ~1 (lagging)
THDi	<2% (rated power)
AC (off-grid)	
Rated Power	125kW
Output Voltage	230/400V AC
Grid Frequency	50/60Hz
AC Voltage harmonic	<3% (Linear load)
Isolation Transformer Parameters	
Voltage	400/400V AC
Capacity	150kVA
Max Efficiency	≥97%
Short-Circuit Impedance	4%
Basic Parameters	
Dimensions (W*D*H)	1750*1420*2135mm
Weight	3500kg
Operating Temperature	-30°C~55°C (>45°C derating)
Relative Humidity	5%~90% (non-condensing)
IP Rating	IP54
Noise	80dB (<1m distance)
Altitude	≤2000m
Cooling Method	Intelligent Air Cooling (Battery compartment air conditioning,electrical compartment fan)

