

# FH Series

## Industrial and commercial storage outdoor integrated cabinet

FH series industrial and commercial storage outdoor integrated cabinet is suitable for various industrial and commercial application scenarios such as industrial parks andcommercial complexes. The integrated cabinet adopts modular design, which can be flexibly expanded, and is convenient for installation and operation, and maintenance. Explosion-proof design of the whole machine, aerosol fire protection system, AC sidesecondary lighting protection(fault alarm), leakage current detection protection and other safety functions to guard the safety of the power station. Liquid-cooled temperature control system supports low-temperature heating. The IP55 rating supports outdoor installation, integrates EMS function, and can participate in electricity market transactions(VVP) to meet the management of electricity charges for the demand of the park and help the development of industrial and commercial energy storage.



# FH-261(100KW/261KWh)
# Voltaine series liquid-cooled industrial and commercial storage cabinet

◆Multi-fusion
Bulit-in EMS, PCS and BMS, auxiliary power redundancy design;

◆Intelligent temperature control
Operating at full power,the maximum temperature of the battery is below 38℃, and the temperature difference is less than 3℃;

◆Reliable
One cluster management,cloud-edge collaboration,real-time data monitoring,and fault warning;

◆Safety
Lithium Iron Phosphate(LFP)batteries, battery packs and system all use aerosol fire extinguishing fluids;

◆High-protection
5cm fire proof rock wool,1 hour flame retardant protection,C4 shell protection;

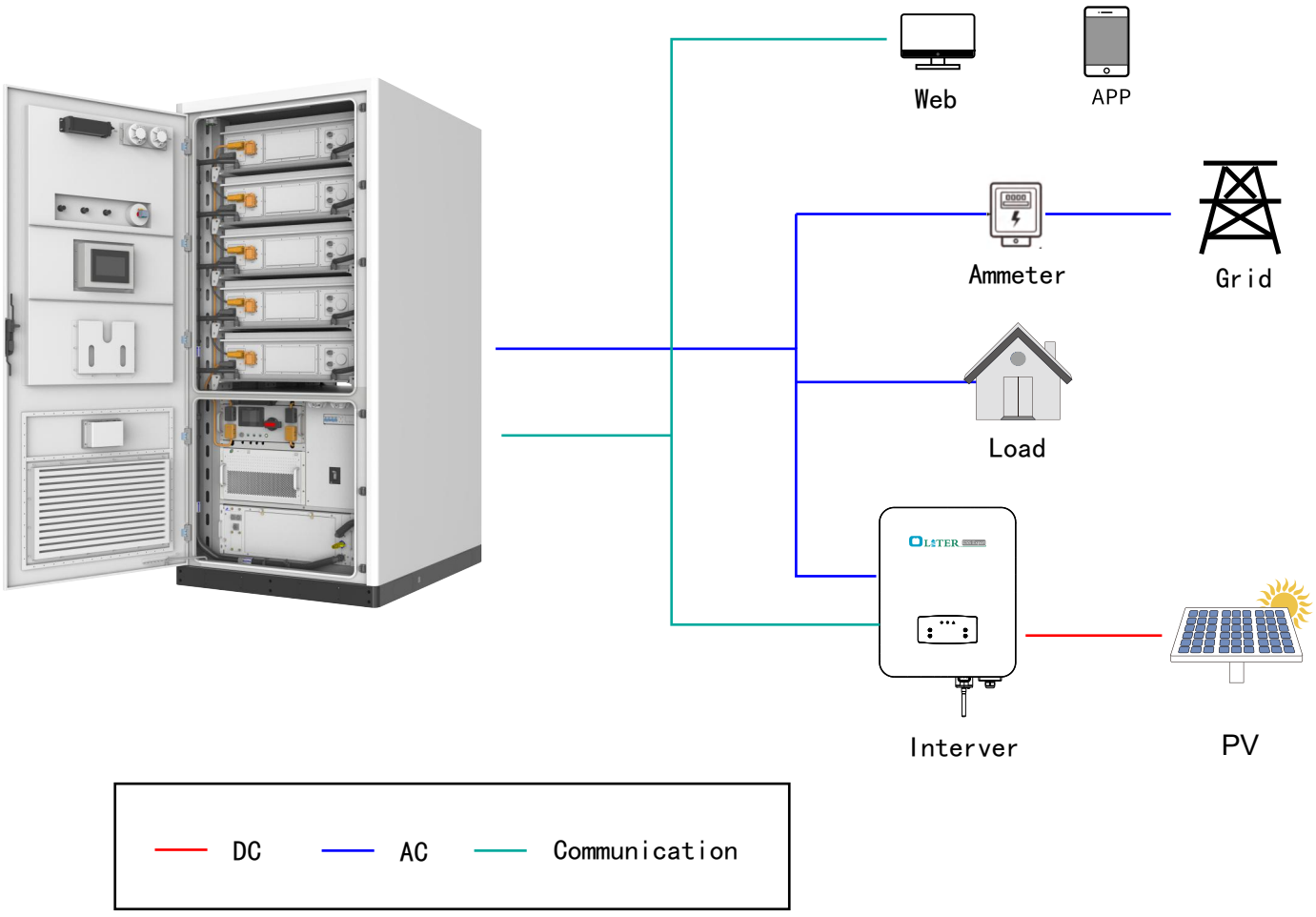
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# Technical data

| Model | FH-261 |
|---|---|
| System parameters | |
| Rated output power(KW) | 100 |
| AC output frequency/voltage | 50/60Hz;380/400Vac |
| Grid type | Three-phase five-wire |
| Capacity(kWh) | 261 |
| Dimensions(W/D/H,mm) | 1100*1400*2380 |
| Weight(kg) | ≤3000 |
| Battery operating voltage(V) | 650~949 |
| Maximum cycle efficiency | 92% |
| Communication | ETH/4G |
| Ambient temperature(℃) | -20~55 |
| Operating altitude(m) | ≤2000 |
| IP | IP55 |
| Corrosion protection level | C4 |
| Installation | 地面安装 |
| Converter parameters | |
| Rated output current(A) | 144 |
| Maximum output current(A) | 192 |
| Maximum number of parallel machines | 8 |
| Peak power | 1.1 (long-term) 1.2 (1min) |
| Power factor | -0.99~+0.99 |
| Current harmonics | ≤3% |
| Operating temperature(℃) | -20~50(＞45℃ Downclocking) |
| Operating humidity | 0% ～95%(No Condensing) |
| Communication | CAN,RS485,LAN |
| Maximum efficiency | ≥98.2% |
| Battery technical parameters | |
| Cell type | LFP 3.2V314Ah |
| Standard voltage(V) | 166.4 |
| Capacity(kWh) | 52.3 |
| Communication | CAN |
| Module size(W*D*H,mm) | 784*1160*242 |
| Module weight(kg) | 332 |
| Operating temperature | Charge:0~55℃/Discharge:-20℃~55℃ |
| Cycle life | ≥6000(@25℃±2℃,0.5C/0.5C,70%EOL) |

# Appliacation topology




# Application topology

Electricity bill savings
Peak shaving and valley filling to reduce electricity bills  Demand control reduces capacity electricity bills

Scenery consumption
The surplus electricity generated by PV during the day is stored for use at night
The discharge smooths out the output fluctuations of wind power

Optical storage microgrid
It can realize the application of electricity cost saving,back up power supply,etc.,and provide stable power supply for areas that cannot be connected to the power grid such as islands and mountainous areas.

Power expansion
Discharges when the distribution capacity cannot meet the load demand to meet the load demand, so as to achieve the effect of virtual capacity expansion

The standby power supply
Discharged in the event of a power outage or power rationing in the power grid to ensure power consumption

Demand response
Receive grid dispatch and enjoy dispatch subsidies