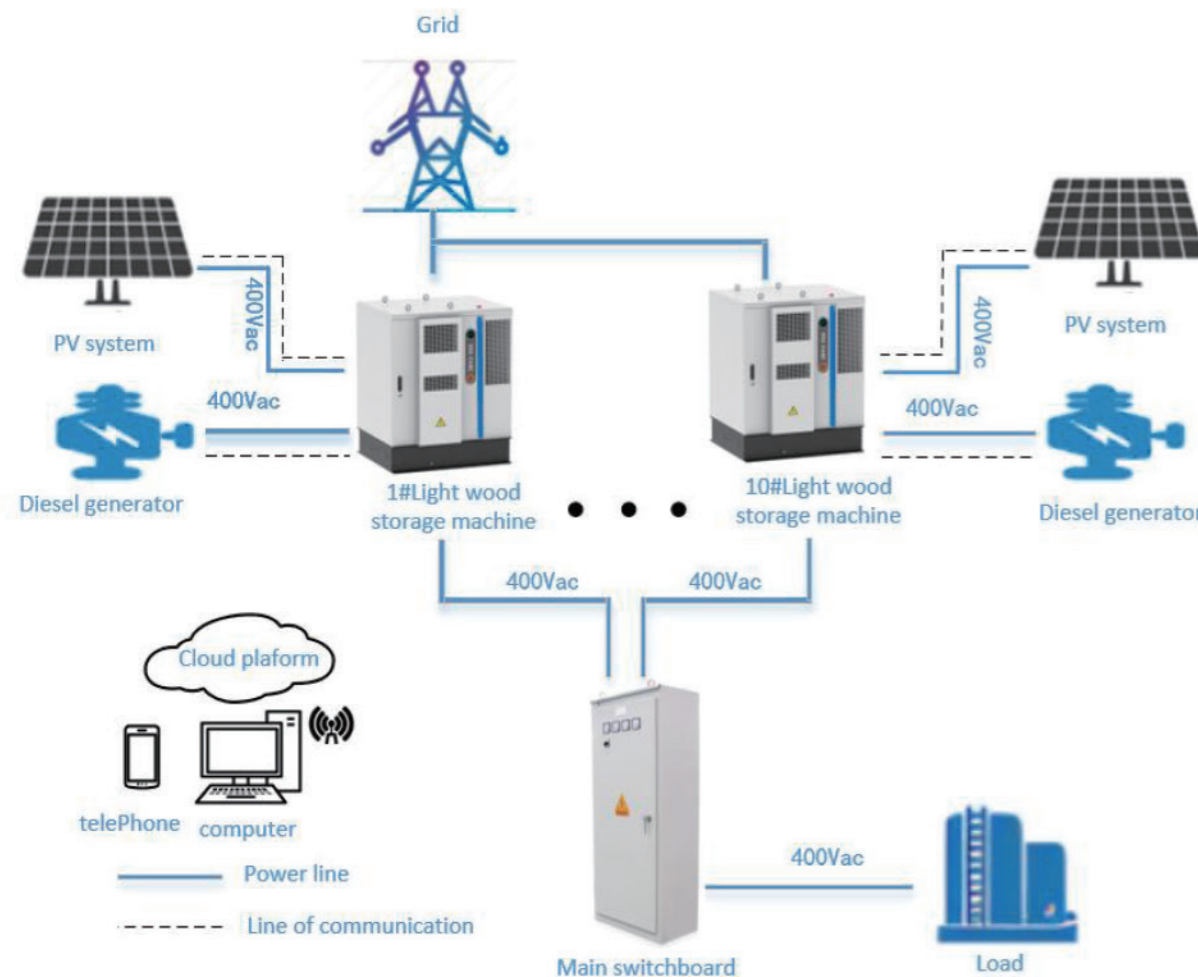


## 30kW~500kW Hybrid Solar-Storage-Diesel Integrated System

### Performance Characteristics

- Application scenarios of hybrid solar-diesel-storage system, supporting collective access to diesel generators, photovoltaics, energy storage, loads, power grids, etc
- Multiple MPPT interfaces, rich photovoltaic interfaces, single photovoltaic supports up to 100kW input, and supports up to 10 photovoltaic storage integrated machines in parallel
- Single unit maximum 50kW load end AC output power
- Flexible support for off grid connection, seamless switching between VF/PQ supported
- Multiple electrical protections, proactive warning, proactive protection
- Rich protection functions, supporting islanding protection, overcurrent protection, reverse connection protection, surge protection and other functions
- Bidirectional active balancing scheme effectively solves the consistency problem of battery cells



### Technical Parameter

Product Model	F100-M	F200-M
Maximum Battery Capacity	120.7kWh	217kWh
Configurable Capacity	72.3kWh~217kWh	
Maximum Photovoltaic Power	60kW	100kW
Maximum Battery Power	33kW	55kW
Maximum Generator Power	30kW	50kW
Maximum Output Power	30kW	50kW
Rated Voltage	3/N/PE, 220V/380V, 3/N/PE, 230V/400V	
Output Current	45.6A/43.3A	76A/72.2A
Maximum Bypass Current	91.2A/86.6A	152A/144.4A
Rated Frequency	50/60Hz	
Off Grid Switching Time	< 10ms	
MPPT Voltage	150~850V	
MPPT Quantity	3*6	4*8
Maximum Photovoltaic Current	3*40A	4*40A
Maximum Charging Efficiency	98.5%	
Cell	LFP-3.2V-314Ah-1004.8Wh	
Battery Voltage Range	330V~426V	594~766.8Vdc
Maximum Current of Battery	70A*2	
Battery Cell System Lifespan	≥10000	
Battery Cycle Efficiency	91%	
Generator Current	45.6A/43.3 A	76A/72.2 A
Generator Voltage	3/N/PE, 220V/380V, 3/N/PE, 230V/400V	
Protection Function	Island protection, overcurrent protection, short circuit protection, reverse connection protection, surge protection, etc	
BMS Topology	Bidirectional active equilibrium	
Communication Interface	RS485/CAN/Ethernet/MQTT	
HVAC	Intelligent air cooling	
Firefighting Program	Fire detector+gas/smoke/temperature detection+perfluorohexane	
Isolation Method	Non-Isolated	
Outlet	Lower outgoing line	
Altitude	≤4000m (>3000m Derating)	
Operating Temperature	-20~55°C	
Degree of Protection	IP55	
Max Configuration Weight	1.2T	1.9T
Dimensions W*D*H	1000*1274*2000mm	1435*1274*1780mm
Product Certification	GBT36276、GBT34131、CE、IEC62619、IEC62620、IEC62477-1、UN38.3	
Power Grid Standards	GB/T 29319、G98/G99、VDE-AR-N 4105 / VDE V 0124、EN 50549-1、VDE 0126 / UTE C 15 / VFR:2019、RD 1699 / RD 244 / UNE 206006 / UNE 206007-1、CEI 0-21、C10/11、NRS 097-2-1、TOR、EIFS 2018.2、IEC 62116、IEC 61727、IEC 60068、IEC 61683、EN 50530、MEA、PEA	