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Yb250815



Wall Mount LiFePO4 Battery

MDESS/M3

M3-100WS-5k (IP65)
M3-100W-5k
M3-200W-10k



20 inverter protocols can be selected on the display



Long cycle life



Support 15 in parallel



Ultra slim design

Battery Model	M3-100WS-5k (IP65)	M3-100W-5k	M3-200W-10k
Nominal Voltage	51.2V	51.2V	51.2V
Rated Capacity	100Ah	100Ah	200Ah
Capacity (kWh)	5.12kWh	5.12kWh	10.24kWh
End-of-Charge Voltage	58.0V	58.0V	58.0V
End-of-Discharge Voltage	42.0V	42.0V	42.0V
Max. Charge Current	100A	100A	100A
Max. Discharge Current	100A	100A	100/200A
Communication	RS485/CAN	RS485/CAN	RS485/CAN
Size (mm)	770*520*90mm	600*410*140mm	850*485*145mm
Weight (kg)	44kg (about)	45kg (about)	89kg (about)

Standing Type LiFePO4 Battery

MDESS/M3

M3-300S-15k
M3-314S-16k
M3-400S-20k



Drive 10kW inverter



Long cycle life



Communication protocol customization



Easy to move

Battery Model	M3-300S-15k	M3-314S-16k	M3-400S-20k
Nominal Voltage	51.2V	51.2V	51.2V
Rated Capacity	300Ah	314Ah	400Ah
Capacity (kWh)	15.36kWh	16.0768kWh	20.48kWh
End-of-Charge Voltage	58.0V	58.0V	58.0V
End-of-Discharge Voltage	42.0V	42.0V	42.0V
Max. Charge Current	200A	200A	200A
Max. Discharge Current	200A	200A	200A
Communication	RS485/CAN	RS485/CAN	RS485/CAN
Size (mm)	470*237*690mm	490*255*740mm	510*293*970mm
Weight (kg)	118kg (about)	119kg (about)	162kg (about)

Stacked Type LiFePO4 Battery

MDESS/M3
M3-100SS-5K
M3-200SS-10K
M3-300SS-15K



Compatible with 20+ Mainstream



Passed IEC62619 certification



Power expansion freely



BMS self-developed

Battery Model	M3-100SS-5K	M3-200SS-10K	M3-300SS-15K
Nominal Voltage	51.2V	51.2V	51.2V
Rated Capacity	100Ah*n	200Ah*n	300Ah
Capacity (kWh)	5KWh*n(n=2~8)	10KWh*n(n=2~6)	15KWh*n(n=2~5)
End-of-Charge Voltage	58.0V	58.0V	58.0V
End-of-Discharge Voltage	42.0V	42.0V	42.0V
Max. Charge Current	100A	100A	100A
Max. Discharge Current	100A	100A	100/200A
Communication	RS485/CAN	RS485/CAN	RS485/CAN
Size (mm)	580*360*150mm	590*500*245mm	670*550*265mm
Weight (kg)	42kg (about)	75kg (about)	112kg (about)

HV Brick Type LiFePO4 Battery (10/ 15/ 20KWh)

MDESS/M3
M3-50SS-10K
M3-50SS-15K
M3-50SS-20K



BMS self-developed



Automotive grade process



Host integrated high voltage module



Power expansion freely

Battery Model	M3-10KWh	M3-15KWh	M3-20KWh
Nominal Voltage	204V	307V	409V
Rated Capacity	50Ah	50Ah	50Ah
Capacity (kWh)	10kWh	15KWh	20KWh
End-of-Charge Voltage	233V	350V	467V
End-of-Discharge Voltage	166V	249V	332V
Max. Charge Current	25A	25A	25A
Max. Discharge Current	50A	50A	50A
Communication	RS485/CAN	RS485/CAN	RS485/CAN
Size (mm)	580*360*450mm	580*360*615mm	580*360*780mm
Weight (kg)	100kg (about)	140kg (about)	188kg (about)

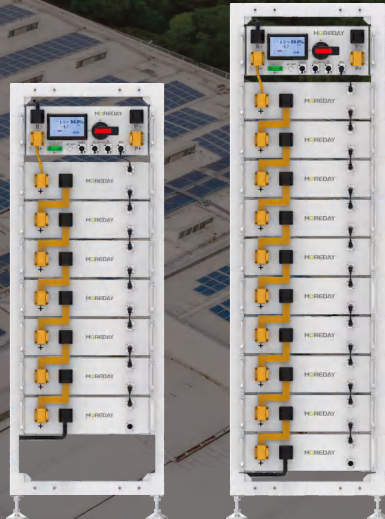
Rack Module Low Voltage ESS

MDESS/M3
LV100R-5kWh
LV100R-20kWh



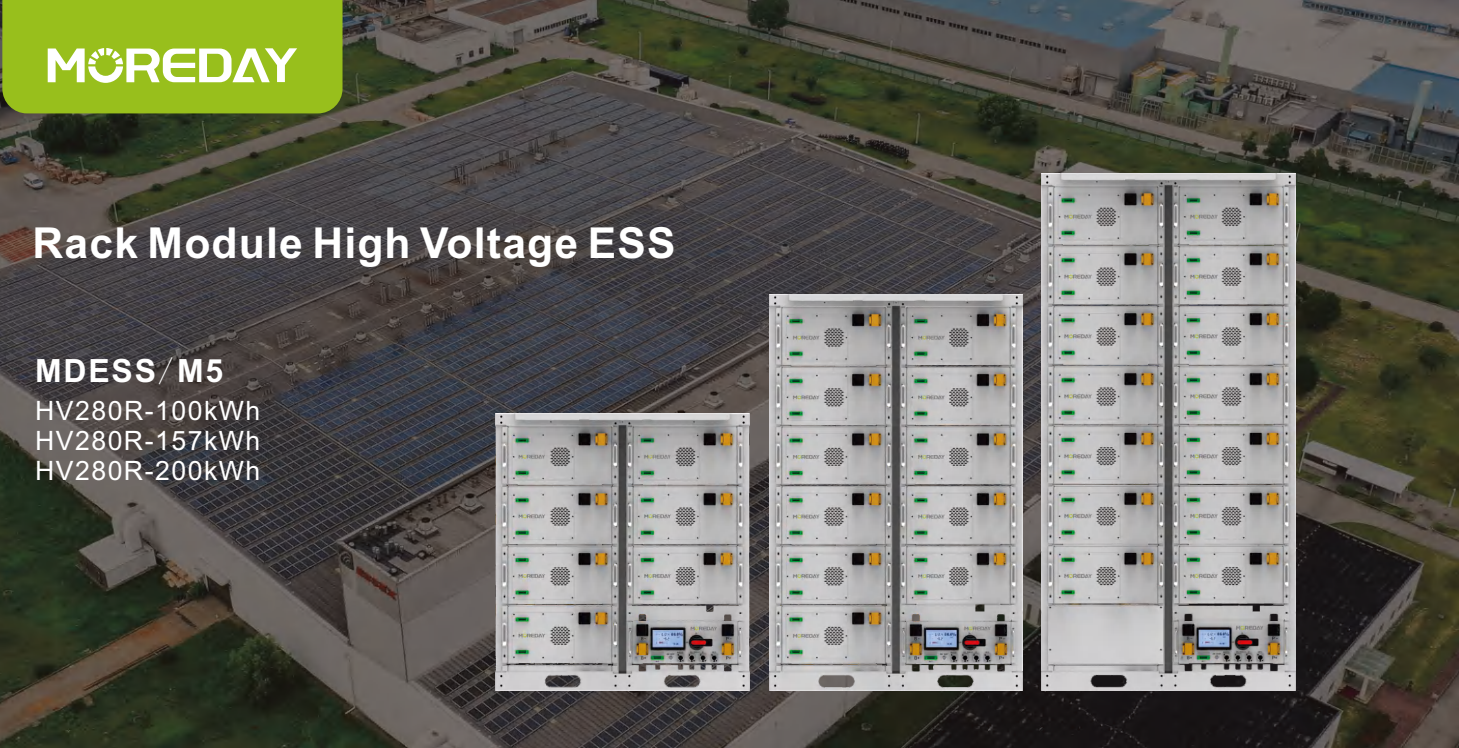
Rack Module High Voltage ESS

MDESS/M5
HV100R-35kWh
HV100R-51kWh



MODEL		LV100R-5kWh	LV100R-20kWh
Main Parameter			
Battery Chemistry		LiFePO4	
Capacity (Ah)		100	
Nominal Voltage (V)		51.2	
Operating Voltage(V)		43.2~57.6	
Nominal Energy (kWh)		5.12	5.12*4
Charge/Discharge Current (A) [2]"	Recommend	50	
	Max.	100	
	Peak(2mins,25°C)	120	
Other Parameter			
Recommend Depth of Discharge		90%	
Dimension (W/H/D, mm)		450*133*500	450*133*2000*4
Weight Approximate(kg)		45	45*4
Master LED Indicator		5LED(SOC20%~SOC100%), 3LED (working, alarming, protecting)	
IP Rating of Enclosure		IP20	
Operating Temperature		Charge: 0 ~ 55°C (Optional heating: -20°C~55°C), Discharge: -20°C~55°C	
Storage Temperature		0 ~ 35°C	
Humidity		5%~95%	
Altitude		≤2000m	
Cycle Life		≥ 6000(25°C±2°C, 0.5C/0.5C, 90%DOD, 70%EOL)	
Installation		"Wall-Mounted, Floor-Mounted, Rack-Mounted (19-inch standard cabinet, cabinet depth ≥600mm)"	
Communication Port		CAN2.0, RS485	
Warranty Period [3]		5 years	
Energy Throughput		18MWh@70%EOL	
Certification		UN38.3, CE, MSDSCertification	

MODEL		HV100R-35kWh	HV100R-51kWh
Product		358.4V100AH	512V100AH
Nominal Voltage		358.4V	512V
Nominal Capacity		100AH	
Dimension mouldle(mm)		440*442*133*7	440*442*133*10
Dimension RACK(mm)		560*510*1638	560*510*1780
Weight(kg)		375	520
SPECIFICATIONS		PARAMETER	
Nominal Capacity (kWh)		35.84	51.2
Discharge Cut-Off Voltage (V)		308	440
Charge Cut-Off Voltage (V)		397.6	568
Recoend Charge/Discharge Current(A)		60	
Max. Charge/Discharge working Current(A)		100	
Counication		RS485/RS232/CAN	
Working Temperature		0°C~50°C Charge -10°C~50°C Disharge	
Transport or Storage Temperature Range		- 20°C~60°C	
Certification		CE/IEC/UL/UN38.3/MSDS	
Design Life		15years+	
Cycle Life		(0.5C/0.5C-80% DOD) > 6000 times	
Series Function		Support 16 units in Series	
Certification		UN38.3/MSDS/ROHS	



Rack Module High Voltage ESS

MD-ESS / M5
HV280R-100kWh
HV280R-157kWh
HV280R-200kWh



MODEL	HV280R-100kWh	HV280R-157kWh	HV280R-200kWh
Product	358.4V280AH	563.2V280AH	716.8V280AH
Nominal Voltage	358.4V	563.2V	716.8V
Nominal Capacity	280		
Dimension mouldle(mm)	483*245*792mm*7	483*245*792mm*11	483*245*792mm*14
Dimension RACK(mm)	1090*780*1190mm	1090*780*1690mm	1090*780*2190mm
Weight(kg)	912kg	1416kg	1804kg
SPECIFICATIONS	PARAMETER		
Nominal Capacity (kWh)	100.3kWh	157.6kWh	200.7kWh
Discharge Cut-Off Voltage (V)	308	484	616
Charge Cut-Off Voltage (V)	397.6	624.8	795.2
Recoend Charge/Discharge Current(A)	100		
Max. Charge/Discharge working Current(A)	200		
Counication	RS485/RS232/CAN		
Working Temperature	0℃~50℃ Charge -10℃~50℃ Disharge		
Transport or Storage Temperature Range	-20℃~60℃		
Certification	CE/IEC/UL/UN38.3/MSDS		
Design Life	15years+		
Cycle Life	(0.5C/0.5C-80% DOD) >6000 times		
Series Function	Support 16 units in Series		
Certification	UN38.3/MSDSIROHS		



Integrated All-in-one Energy Storage

MD-Z
HVOD-100kWh
HVOD-200kWh

- ▶ SAFER
- ▶ RELIABLE
- ▶ FLEXIBLE
- ▶ CONVENIENT
- ▶ ECO-FRIENDLY



MODEL	HVOD-100kWh	HVOD-200kWh
Product	HV100K	HV200K
Nominal Voltage	358.4V	716.8V
Nominal Capacity	280AH	
Cabinet Size(mm)	1250*1245*2175mm	1626*1245*2175mm
Weight(kg)	1260kg	2200kg
Charge/discharge power MAX	140A	
Cooling method	Air-cooled	
Protection class	IP55	
Type of firefighting	Aerosol	
BATTERIE SPECIFICATIONS	PARAMETER	
Battery Types	51.2V-280AH	
Nominal Capacity (kWh)	100kWh	200kWh
Recommend Charge/Discharge Current(A)	100	
Max.Charge/Discharge Current(A)	140	
Communicaiton	RS485/CAN	
Working Temperature	0℃~50℃ Charge -10℃~50℃ Disharge	
Transport or Storage Temperature Range	-20℃~60℃	
Certification	CE/IEC/UL/UN38.3/MSDS	
Design Life	10years+	
Cycle Life	(0.5C/0.5C-80% DOD) >6000 times	
Certification	UN38.3/MSDS/ROHS	
AC SPECIFICATIONS	PARAMETER	
Rating	50kW	50kW/100kW
Overloaded	110%	
Rated AC Voltage	400V	
Rated frequency	50/60Hz	
Communicaiton	Ethernet/Modbus/TCP/IP	
Inverter Type	Deye/Solis/Megarevo/Other	

High Voltage

HYBRID PHOTOVOLTAIC & STORAGE SYSTEM

30kWh-100kWh
50kWh-157kWh

MAX POWER

EASY TO USE,
SAFE AND RELIABLE

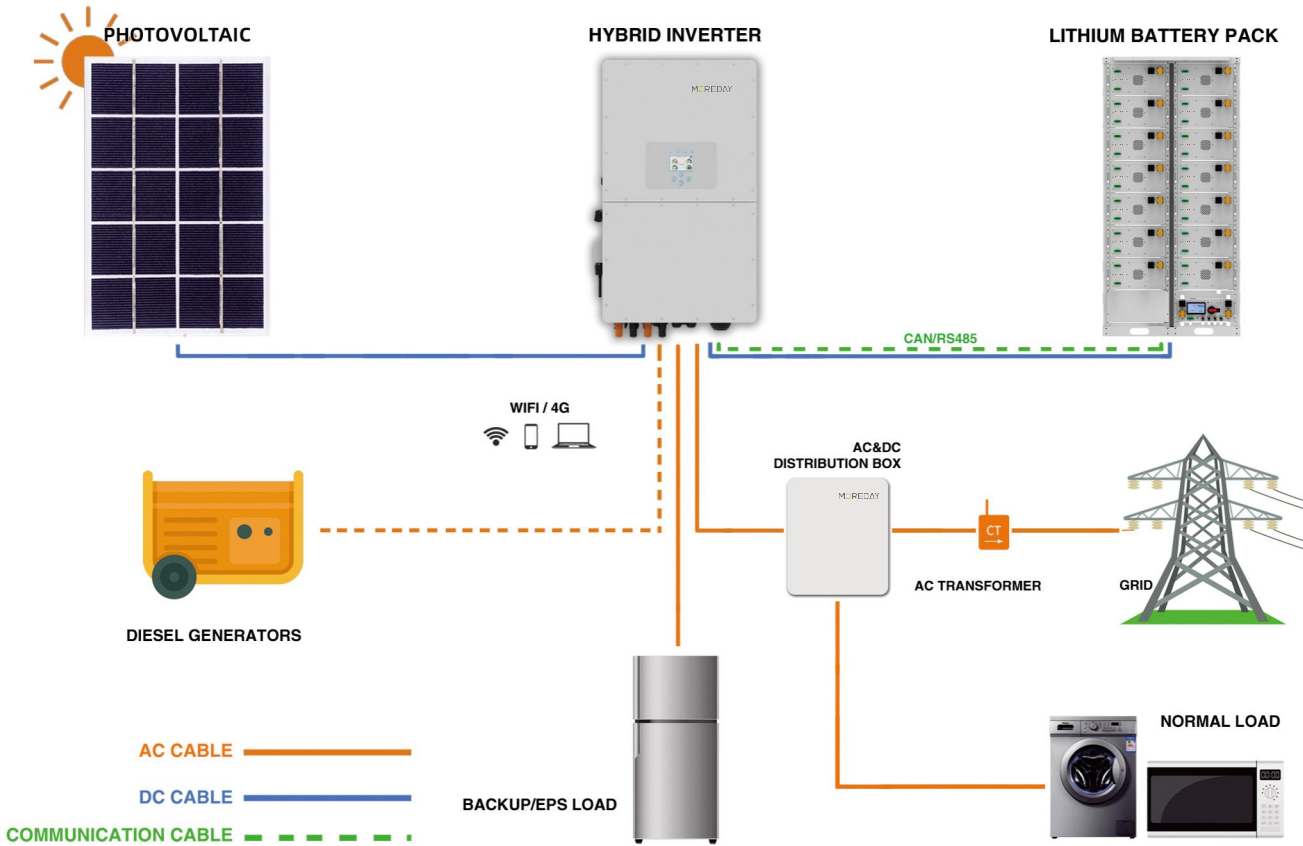
FULL LIFE CYCLE
MONITORING

ECONOMICAL AND
RELIABLE INVESTMENT

PROFESSIONAL

INTEGRATION

INTELLIGENTIZE

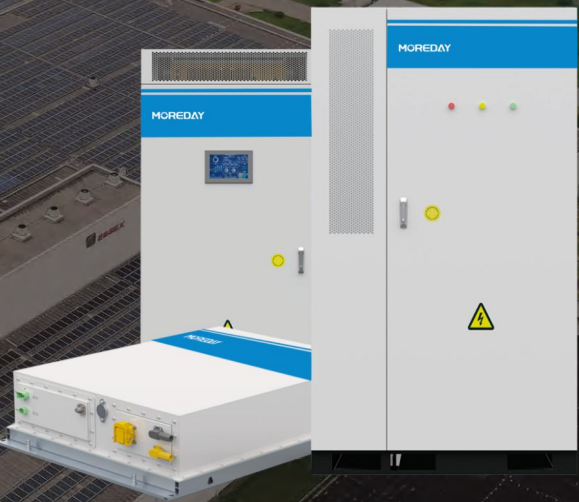


- ▶ 100% three-phase unbalanced output, each phase can output up to 50% of the rated power
- ▶ Supports AC coupling to transform existing photovoltaic power generation systems
- ▶ Supports up to 10 units in parallel (on-grid and off-grid mode), and supports multiple batteries in parallel
- ▶ Maximum charge and discharge current 100A
- ▶ 48V low voltage battery, built-in transformer for safety isolation
- ▶ 6 configurable charging and discharging time periods
- ▶ Support diesel generator to directly charge the battery

Ref.	30k	50k
Battery Input Data		
Battery Type	Lithium-ion	
Battery Voltage Range(V)	160-800	
Max.Charging Current(A)	50+50	
Max.Discharging Current(A)	50+50	
Number of battery input	2	
Charging Strategy for Li-ion Battery	Self-adaption to BMS	
PV String Input Data		
Max PV Access Power (W)	60000	100000
Max DC Input Power(W)	48000	80000
Max DC Input Voltage(V)	180	
Start-up Voltage(V)	150-850	150-850
MPPT Voltage Range(V)	360-850	450-850
Rated DC Input Voltage(V)	600	
Max Operating PV Input Current(A)	36+36+36	
Max Input Short-Circuit Current(A)	55+55+55	
No.of MPP Trackers	3	
No.of String Per MPP Tracker	2+2+2	
AC Input/Output Data		
Rated AC Input/Output Active Power(W)	30000	50000
Max AC Input/Output Apparent Power (W)	33000	55000
Rated AC Input/Output Current(A)	45.5/43.5	75.8/72.5
Max AC Input/Output Current(A)	60	83.3
Max Continuous AC Passthrough (grid to load)(A)	150	
Peak Power (off-grid)(W)	1.5 times of rated power,10s	
Power Factor Adjustment Range	0.8 leading-0.8 lagging	
Rated Input/Output Grid Frequency and voltage Range	50/60Hz ; 220/380,230/400Vac	
Grid Connection Form	3 Phase 3L+N+PE	
DC Injection Current	<0.5%In	
Efficiency		
Max Efficiency	97.60%	
Euro Efficiency	97.00%	
MPPT Efficiency	99.90%	
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level	
General Data		
Safety EMC/Standard	CE、VDE 4105	
Operating Temperature Range	-40~60℃ , >45℃ Derating	
Type Of Cooling	Intelligent air cooling	
Noise(dB)	≤ 65 dB(A)	
Communication Interface	RS485/RS232/CAN	
Weight(kg)	80	
Cabinet size(W*H*Dmm)	527 x894 x294	
Ingress Protection(IP) Rating	IP65	
Installation method	wall-mounted	
Warranty	5years	

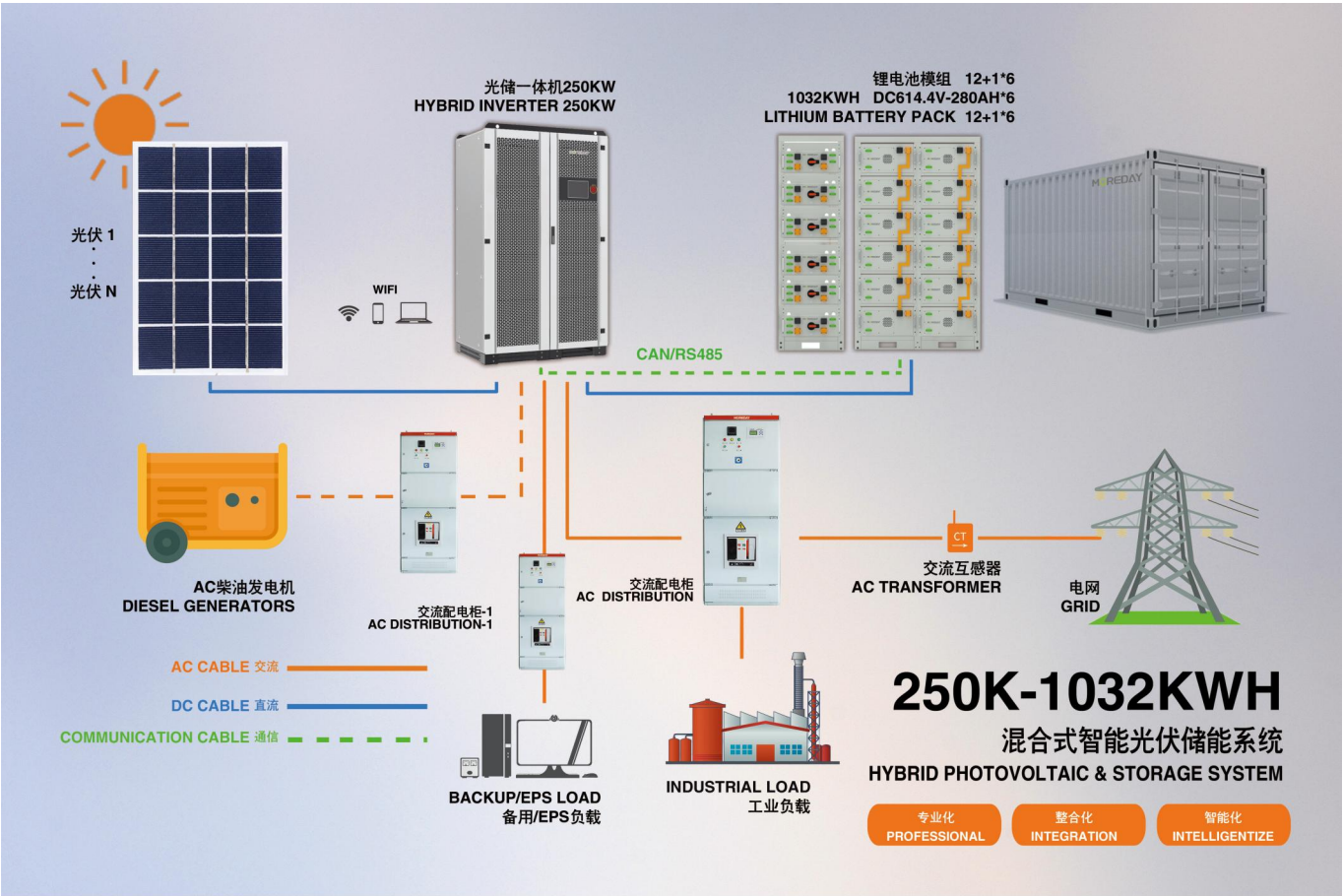
Liquid Cooling Energy Storage System

MD-Z1
MD-Z2
MD-Z3
MD-Z4

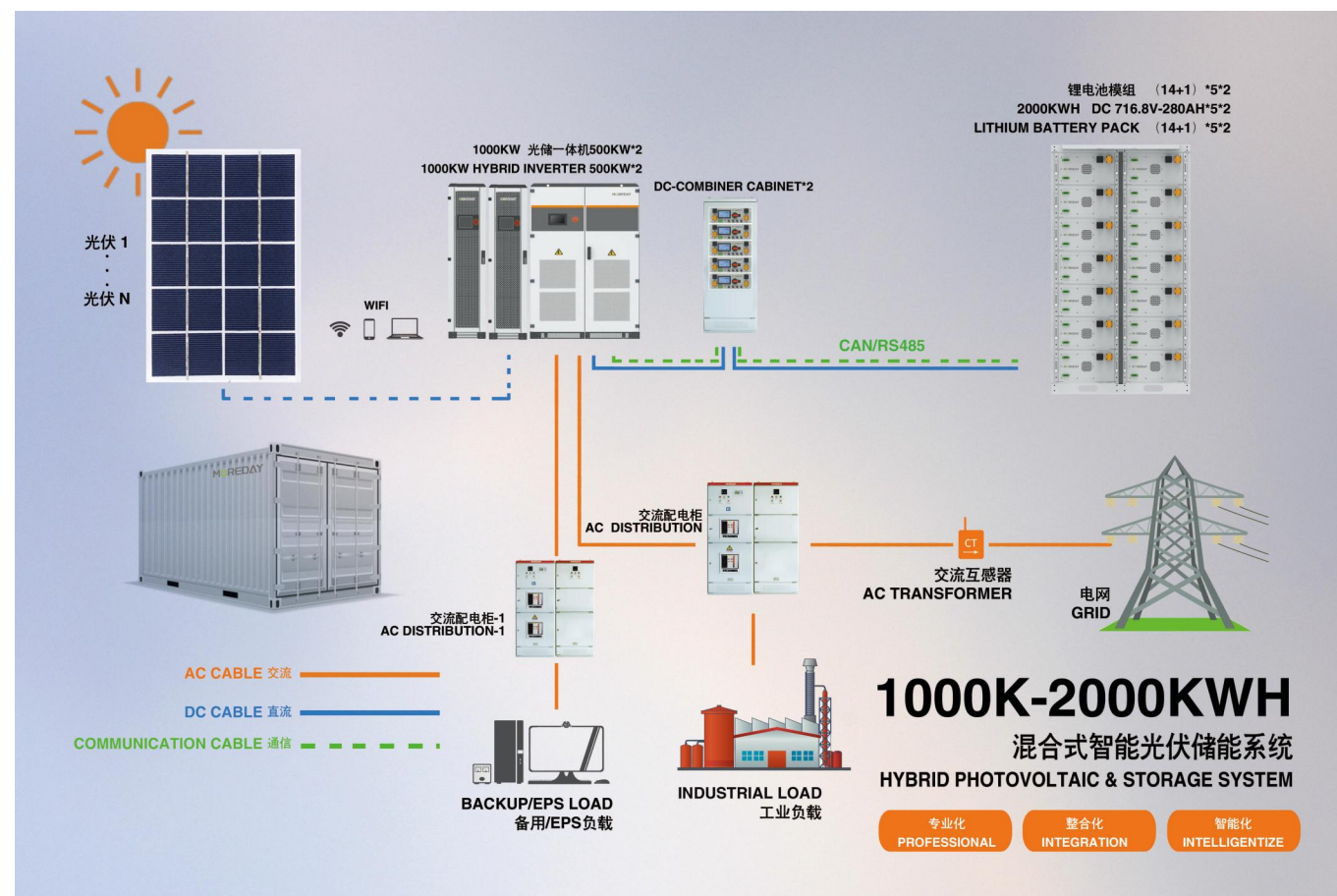


Battery parameters	MD-Z1	MD-Z2	MD-Z3	MD-Z4
Battery Type	Lithium Iron Phosphate			
Combination Method	1P240S	1P260S	1P384S	1P416S
Rated capacity (Ah)	280			
Rated energy (kWh)	215	232.96	344	372
Rated voltage (V)	768	832	1228.8	1331.2
Rated power (kW)	100			
Rated charge discharge rate	0.5C			
Operating voltage range (V)	672-864	728-936	1075.2-1382.4	1164.8-1497.6
Standard charging and discharging current (A)	140/140			
Cooling method	Liquid cooling			
Coolant	Ethylene glycol aqueous solution			
Number of cycles	8000 times			
Fire Protection System	Perfluorohexanone/Heptafluoropropane			
Detector Type	Temperature sensitive, Smoke sensitive, Flammable gas			
System Parameter				
Charging working temperature	-30°C~55°C			
Discharge working temperature	-30°C~55°C			
Short term storage temperature (within one month)	-30°C~60°C			
Long term storage temperature (within one year)	0°C~35°C			
Noise	<75dB		<65dB	
Dimensions (width * height * depth mm)	1000*1300*2280		1300*1300*2280	
Weight (kg)	2200	2500	3500	3600
Anti corrosion grade	C3/C4/C5			
Protection level of battery compartment	IP55			
Protection level of electrical compartment	IP54		IP20	
Allowed relative humidity	0~95%(No condensation)			
Allowable altitude (m)	≤4000m(Reduce the rating above 2000m)			
System efficiency	≥86%		≥94%	
Communication interface	CAN/Ethernet		CAN/Ethernet/RS485	
Communication protocol	Modbus TCP/RTU			
Certifications	GB/T36276-2018			

Suggested Solutions



Suggested Solutions



Suggested Solutions

