Drypower

LITHIUM IRON PHOSPHATE LiFePO4

RACK MOUNT LITHIUM

25.6V | 200Ah | $LiFePO_4$ | 5.12kWh

DP-24200-R

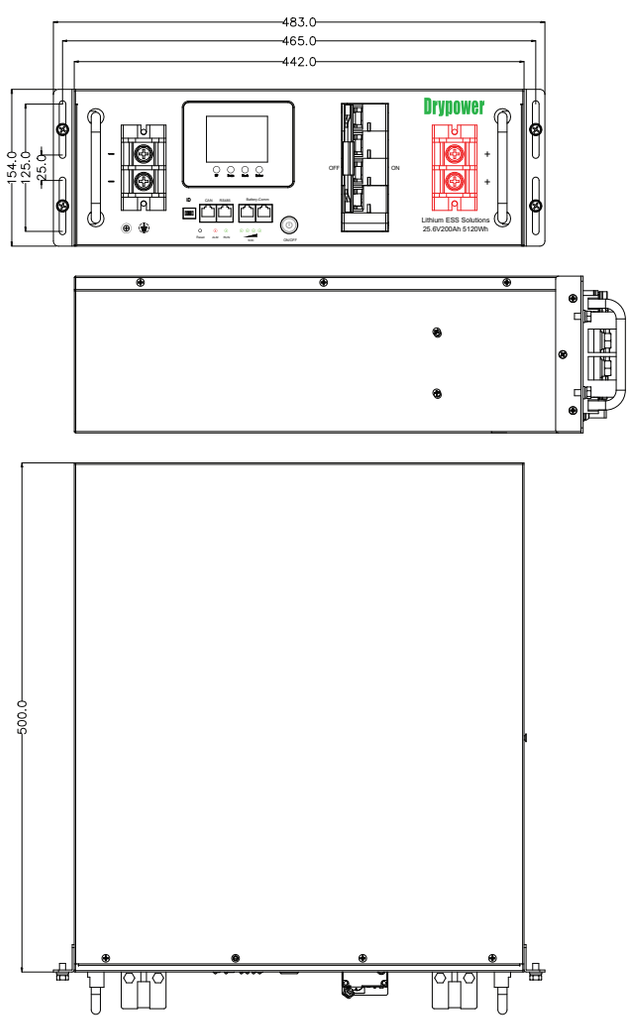
Rechargeable Lithium Iron Phosphate Battery

UN38.3 PASSED TRANSPORT SAFETY CHECKED

SPECIFICATIONS

Size	4RU
Nominal Voltage (25°C)	25.6V
Nominal Capacity (0.2C)	200Ah
Watt-hour	5.12kWh
Weight	45.0 kg
Internal Resistance (at 1KHz)	<6.9mΩ
Charge @25°C	
Recommended Charge Current	30A
Maximum Charge Current	100A
Max Charge Voltage	28.0±0.4V
Discharge @25°C	
Standard Discharge Current	30A
Max. Continuous Discharge	100A
Cut-off Voltage	22.4V
Cell Used	LiFePO4 ETC 3.2V 100Ah
Assembly	8S2P
BMS	Voltage, current, temperature management & cell balance
Cycle Life (0.5C to 80% DoD)	>6000 cycles (25°C)
Operating Temperature	
Charge	0°C ~ +45°C
Discharge	–20°C ~ +50°C
Storage	–20°C ~ +50°C
Case Material	Powder coated steel
Fire Suppression	YES (In-Built)
Termination	M8 screws
Communications	CAN, RS485
Ingress Protection	IP20
Series Connection	No
Parallel Connection	Up to 16 units
Design Life	>15 years (25°C)
Warranty	5 years
Barcode	9319632530788

DIMENSIONS (mm)



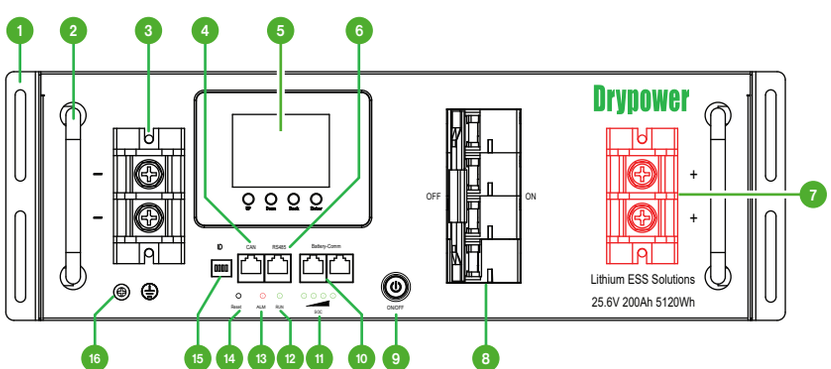
BATTERY MANAGEMENT SYSTEM (BMS)

Item		Parameters		Condition
Charge	Cell voltage protection	3.8V	Delay 1s	Recovery at 3.45V
	Module voltage protection	30.0V	Delay 1s	Recovery at 27.6V
	Over charging current 1	> 102A	Delay 20s	
	Over charging current 2	≥ 120A	Delay 3s	
	Temperature protection	< -5°C or >70°C	Delay 1s	Recover when >5°C or <60°C
Discharge	Cell end-off voltage	2.3V	Delay 1s	Recovery at 3.1V
	Module end-off voltage	22.4V	Delay 1s	Recovery at 22.4V
	Over discharging current 1	> 102A	Delay 30s	Recovery in 60s
	Over discharging current 2	> 150A	Delay 3s	Recovery in 60s
	Short circuit	> 300A	Delay 0.1mS	
	Temperature protection	< -20°C or >75°C	Delay 1s	Recover when >-10°C or <65°C
BMS	PCB Temp Protection	>105°C	Delay 1s	Recover when <80°C
	Cell Balance	120mA	Passive balance	Cell voltage difference > 40mV
	Temperature Accuracy	3%	Cycle measurement	Measuring range -40~100°C
	Voltage Accuracy	0.5%	Cycle measurement	For cells and module
	Current Accuracy	3%	Cycle measurement	Measuring range -200~+200
	SOC	5%		Integral calculation
	Power Consumption with Different Condition	<300uA	Switch-off mode	Storage & transportation
		<300uA	Sleep mode	Protection & stand-by
		<20mA	Operating mode	Charging & discharging
	Communication Ports	CAN, RS485		Protocol can be customised

The BMS provides complete management and protection for the battery.

- Voltage warning and protection for module and each single cell.
- Current warning and protection, and the maximum operating current can be customised.
- Temperature warning and protection, 2 sensors for battery pack and 1 sensor for BMS.
- Battery module SOC and SOH calculation, display the accurate battery status.
- Communicate with inverter or PC monitor, report the battery data.
- Switch-off mode, sleep mode, and operating mode, different mode for different condition.

PANEL DESCRIPTION



Leave a space for an M5 screw here for electrical grounding.
The internal threads must be protected from baking/heat treatment.

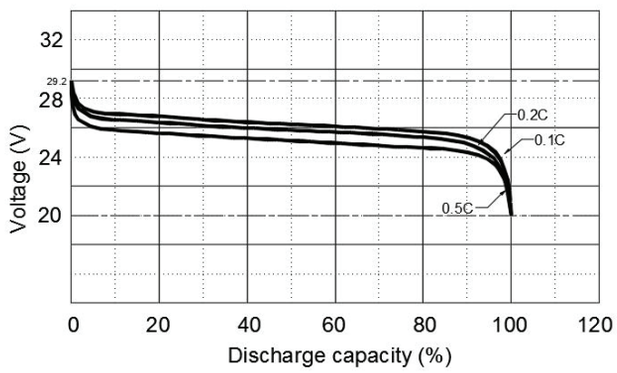
No.	Item	Parameters	Condition
1	Rack mount ear	For battery pack mounting	
2	Handle	Handle for carrier	
3	Battery -	Terminal M10 screw	Negative
4	CAN	CAN Communication port for inverter	Pin4-CAN_H, Pin5-CAN_L
5	HD LCD	HD touch LCD screen	
6	RS485	RS485 Communication port for inverter	Pin1&Pin8-RS485_B, Pin2&Pin7-RS485_A
7	Battery +	Terminal M10 screw	Positive
8	Circuit Breaker	Circuit breaker with shunt trip/release	
9	ON/OFF switch	ON/OFF switch for BMS	
10	Battery-Comm	COMM for parallel connection	Pin1&Pin8-RS485_B, Pin2&Pin7-RS485_A
11	SOC	Capacity remaining display	
12	RUN	Run LED display	
13	ALM	Alarm LED display	
14	Reset	Emergency Reset	
15	ID	ID arrangement	
16	GND	GND Connection for safety	

CAUTIONS

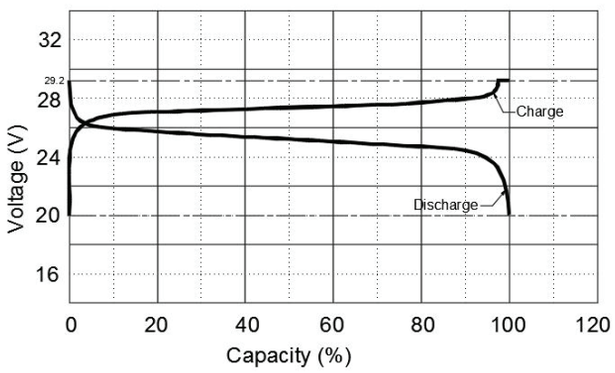
- Do not throw the battery into water. Store batteries in a cool, dry environment.
- Do not expose the battery to fire or heat to avoid explosion or other hazards.
- When charging the battery, use only specialised charging equipment and follow the correct procedures. Do not use unqualified chargers.
- Do not reverse the positive and negative terminals, connect the battery directly to AC power, or short-circuit the battery.
- Do not mix batteries from different manufacturers, different types, or old and new batteries.
- Do not puncture the battery with sharp objects. Avoid dropping, stamping on, impacting, or hitting the battery.
- Do not open or attempt to repair a defective battery. Warranty will be void if the battery is disassembled or repaired.
- Do not use the battery if it is hot, bulging, or emits abnormal odours. Report any issues to the after-sales department immediately.
- For long-term storage, charge and discharge the battery every three months to maintain optimal performance. The ideal storage charge level is 50–60%.
- Batteries are shipped at approximately 50% state of charge. Charge the battery before first use.

BATTERY MODULE PERFORMANCE CURVES

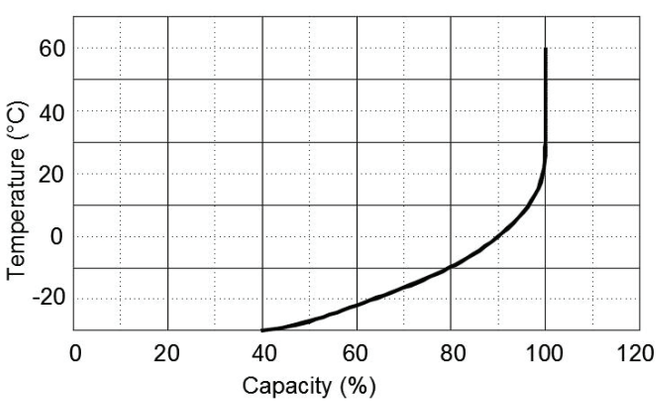
Discharge perfomance with different rate @ 25°C



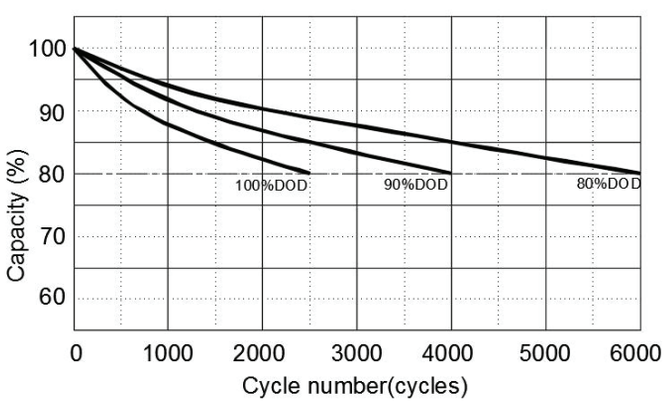
Charge & Discharge curve with 0.5C @ 25°C



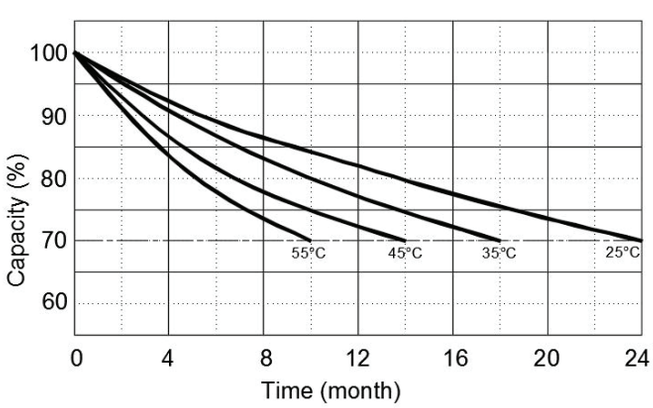
Discharge capacity with different temperature @ 0.5C



Cycle life with DOD @ 0.5C，25°C



Self-discharge @ different temperature



Performance may vary depending on application. All specifications are correct at time of creation. All specifications and operation conditions contained in this datasheet are subject to change or improvement without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us ▪ May2026