



25.6V

200Ah

LiFePO_4


5.12kWh

DP-24200-R

Rechargeable Lithium Iron Phosphate Battery



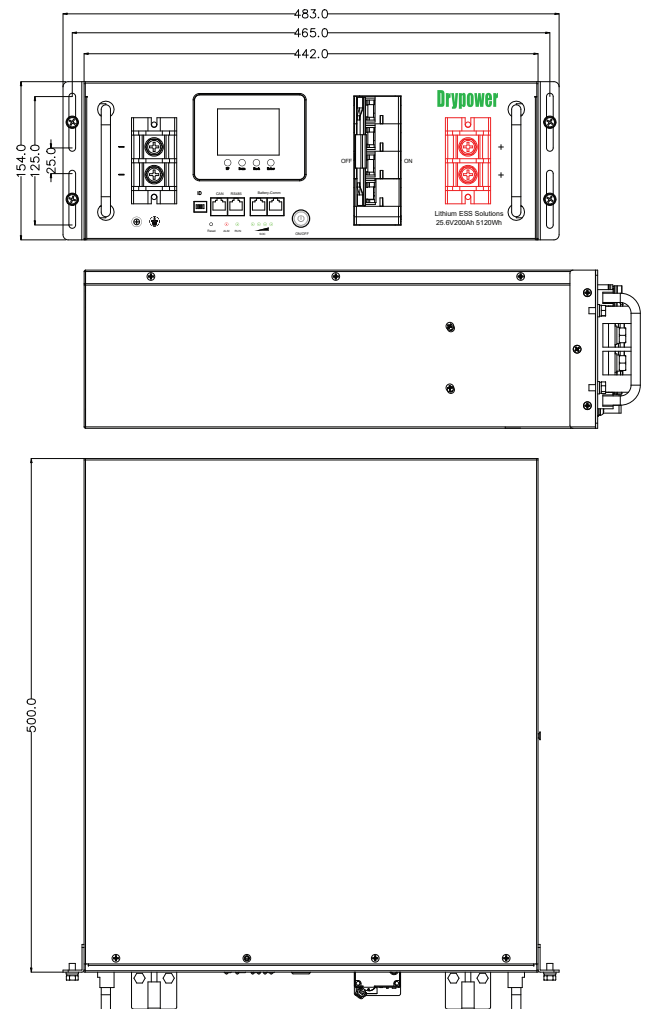
SPECIFICATIONS

| | |
|--------------------------------------|--|
| 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) | <6mΩ |
| 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) |
| Barcode |  9319632530788 |



DIMENSIONS

(mm)



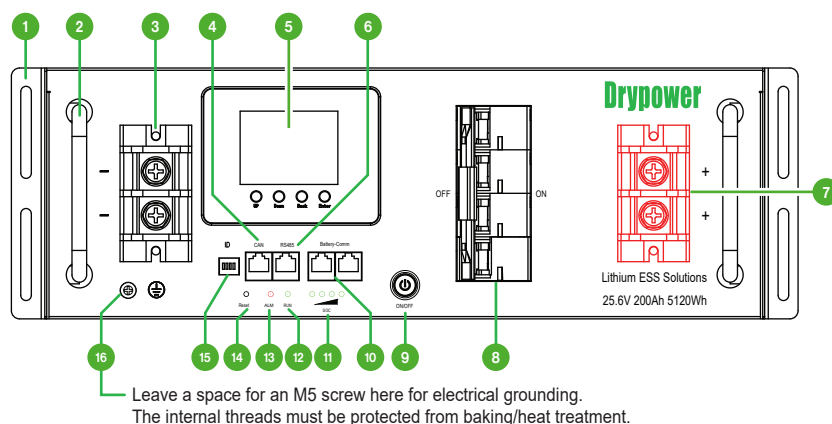
BATTERY MANAGEMENT SYSTEM (BMS)

| 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



| 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 for power supply | |
| 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 | |

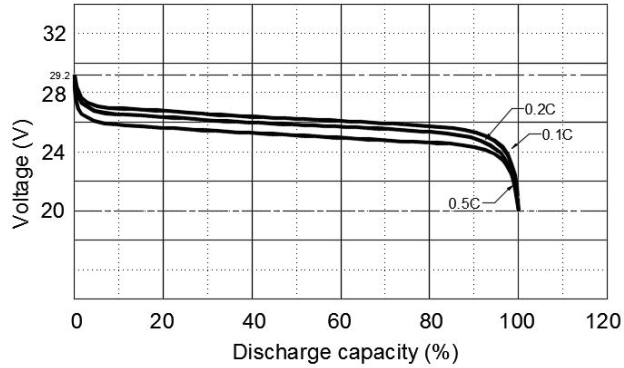
CAUTIONS

- 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.

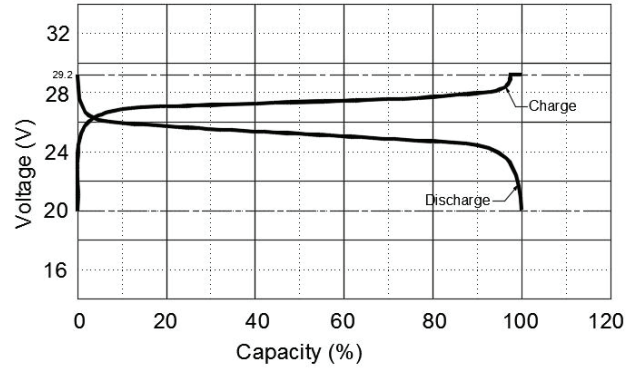
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BATTERY MODULE PERFORMANCE CURVES

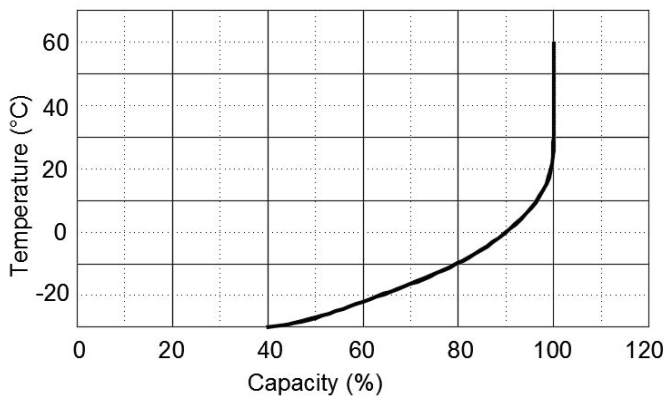
Discharge performance with different rate @ 25°C



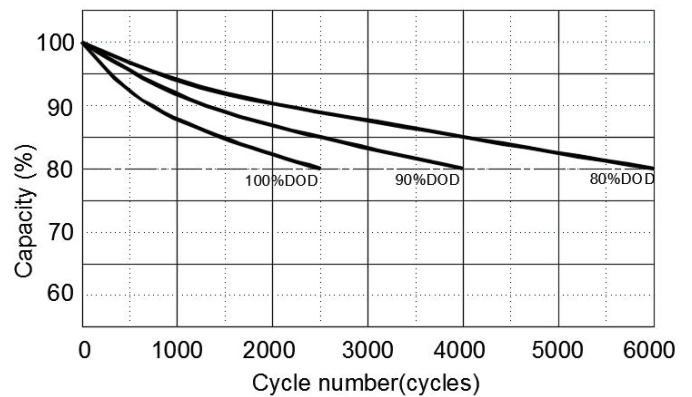
Charge & Discharge curve with 0.5C @ 25°C



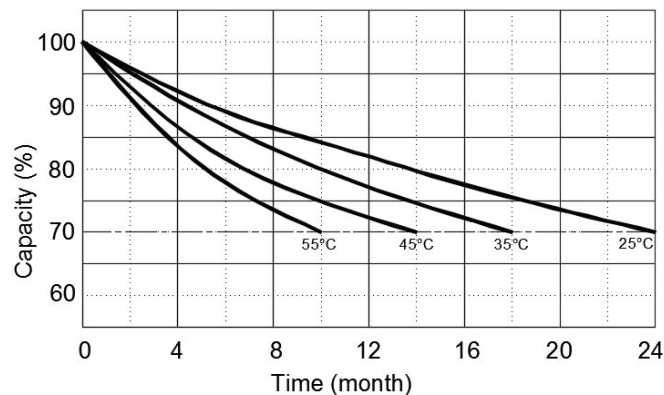
Discharge capacity with different temperature @ 0.5C



Cycle life with DOD @ 0.5C, 25°C



Self-discharge @ different temperature



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