

25.6V

20Ah

LiFePO<sub>4</sub>

512Wh

## 24LFP20

Rechargeable Lithium Iron Phosphate Battery

### SPECIFICATIONS

Nominal Voltage	25.6V
Nominal Capacity @5hr Rate	20Ah
Watt-hour	512Wh
Weight	4.4kg
Internal Resistance (at 1KHz)	≤45mΩ
Charge @25°C	
Standard Charge Current	4A
Maximum Charge Current	10A
Max Charge Voltage	29.2V

### Discharge @25°C

Standard Discharge Current	4A (0.2C)
Max. Continuous Discharge	20A (1C)
Cut-off Voltage	16.8V

Cell Used	IFR26650-40A
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Assembly	8S5P-Cyl
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### Cycle Life (±0.5C, 25°C)

100% DoD	≥1500 cycles
80% DoD	≥2500 cycles
50% DoD	≥3500 cycles

### Operating Temperature

Charge	0°C ~ +45°C
Discharge	-20°C ~ +60°C
Storage	-20°C ~ +45°C

Operating Humidity Range	5% – 85%
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Case Material	ABS
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Termination	F8 (M6 Bolt)
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Ingress Protection Rating	IP65
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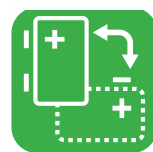
Series Connection	Up to 2S
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Parallel Connection	No
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Barcode

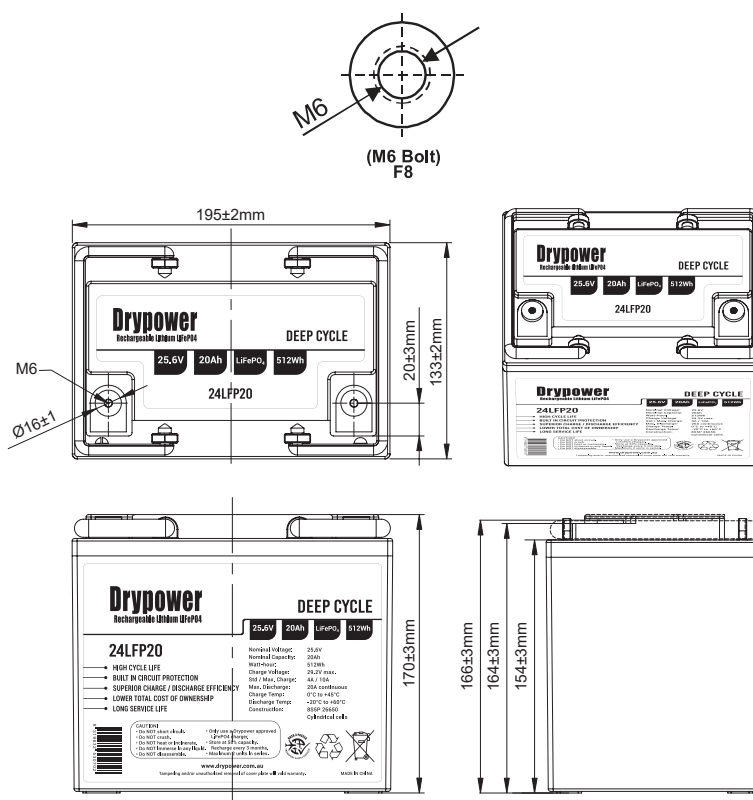


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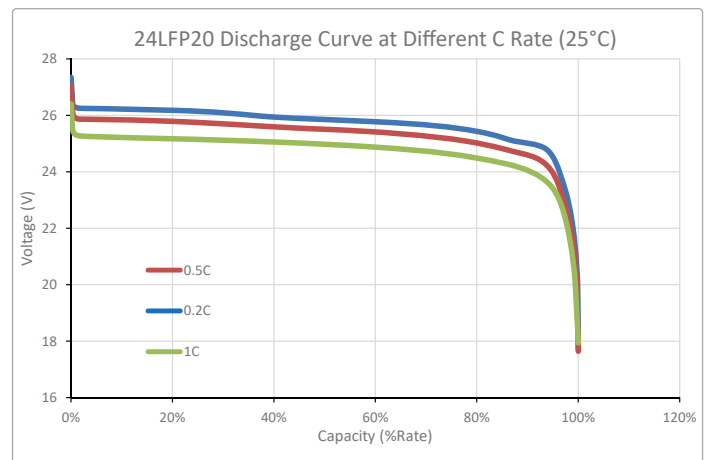
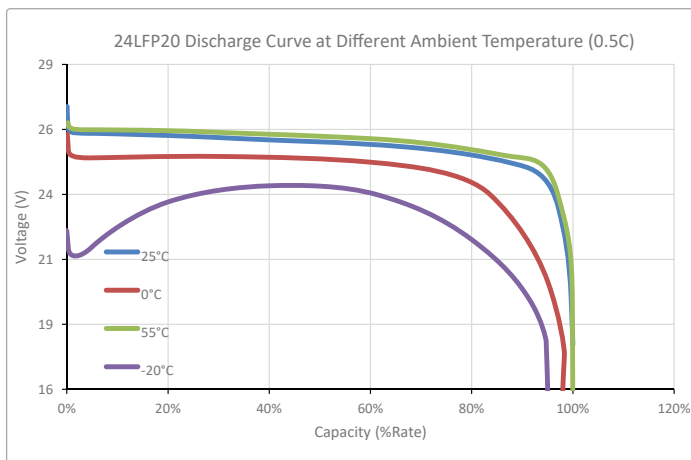
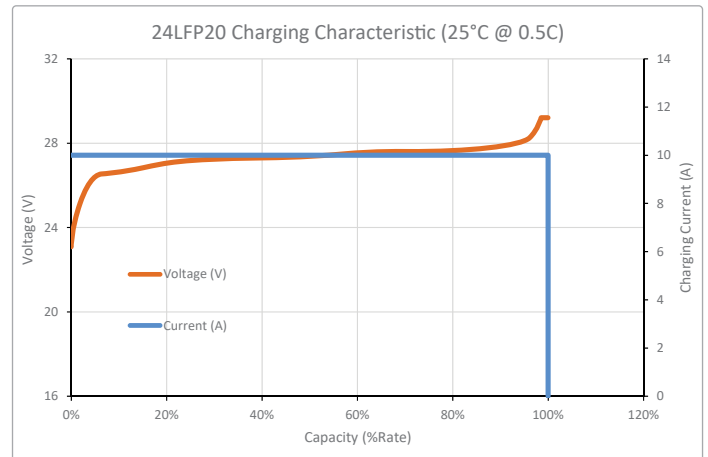
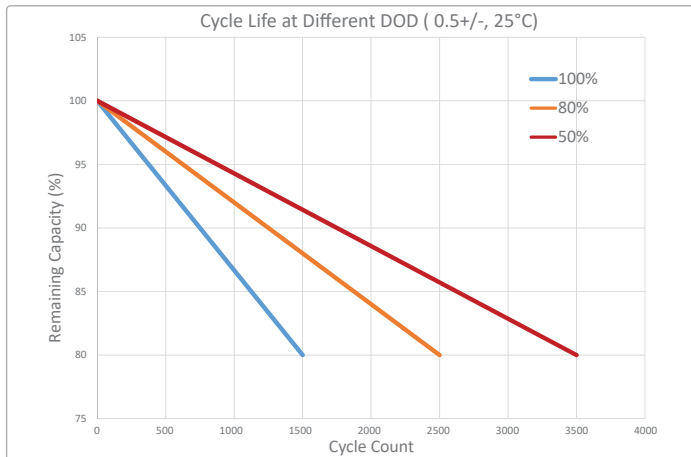


**Any orientation** - Drypower Rechargeable Lithium batteries with cylindrical LiFePO<sub>4</sub> cells inside can be used and mounted in any orientation, offering ultimate flexibility in a wide variety of applications.

### DIMENSIONS



### CHARACTERISTICS CHARTS



### FEATURES & BENEFITS

- Long Service Life**  
 >2000 cycles @100% DoD (25°C) to 80% of original capacity - longer service life than SLA to reduce maintenance costs.
- High Energy Density - More Power p/kg**  
 Higher total system capacity and superior utilisation (full 100% DoD) to reduce overall system size and footprint.
- Robust Enclosure**  
 Enclosed in IP5x (dust resistant) or IP6x (dust tight) case with closed loop terminals - suitable for harsh environments.
- Stable Chemistry & Built-in Circuit Protection**  
 IEC & UN38.3 Safety Certified at cell level and integrated BMS protection to ensure safety and prevent damage.
- Lightweight**  
 Approx. 1/2 the weight (or less) of equivalent in SLA means lower logistics costs and minimal OH&S concerns.
- Superior Charge & Discharge Efficiency**  
 Faster charge/discharge rates (C/2 LiFePO4 vs C/20 SLA) for higher power usage and less downtime when charging.
- Wide Operating Temperature Tolerance**  
 Suitable for use in a wider range of applications where ambient temperature is atypical: from -20°C up to +60°C.
- Fully Recyclable Battery**  
 An environmentally friendly battery option, with no lead or calcium that can leak into the environment.

### BUILT-IN PROTECTION

All Drypower Rechargeable Lithium batteries adhere to strict safety guidelines by incorporating Battery Management Systems (BMS) that include protection components such as:

- Integrated Circuit (IC)
- Thermistor
- MOSFET
- Protection Circuit Module (PCM)
- Fuse

The BMS in each Drypower battery helps to:

- Maintain safety for users.
- Prevent damage to equipment and property.
- Eliminate concerns about use of the wrong type of charger.
- Minimise the risk of overdischarge causing damage.
- Provide short circuit and overcharge protection.

### CAUTIONS

- Do NOT short circuit, crush or disassemble.
- Do NOT heat or incinerate.
- Do NOT immerse in any liquid.
- Do NOT allow the battery to become overdischarged. If possible, isolate the battery when not in use.
- Do NOT leave the battery in a discharged state. Always recharge after use with a Drypower approved LiFePO4 charger.
- Store at 50% capacity. Recharge every 3 months. The storage area should be clean, cool, dry and ventilated.
- Maximum 2 units in series. No parallel connection allowed.

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 • Jan2023