

Lithium-ion battery – Data sheet – A1830-M

Battery Specifications

General Specifications

| | |
|-------------------------------------|--------------|
| Cell Configuration | 7S13P |
| Nominal Voltage | 25.2V |
| Nominal Capacity (at 20°C, 1C) | 31.2Ah |
| Operating Voltage | 21V to 29.4V |
| Cycle Life (20±5°C, 0.5C, 100% DOD) | >1000 cycles |
| Terminal | M6 |

Mechanical Specifications

| | |
|------------|--------|
| Width | 228mm |
| Height | 160mm |
| Length | 168mm |
| Net Weight | 3.78kg |

Operation Specifications

Charge

| | |
|------------------|-------|
| Charging Current | 15A |
| Charging Voltage | 29.4V |

Discharge

| | |
|-------------------------------|----------|
| Operating Current | max. 30A |
| Maximum Pulse Current (5 sec) | 90A |

Temperature

| | |
|-------------------------|---------------|
| Storage Temperature | -20°C to 45°C |
| Charging Temperature | 0°C to 45°C |
| Discharging Temperature | -20°C to 50°C |

Safety

| | |
|-----------------|--------|
| Safety Standard | UL1642 |
| IP Degree | IP 60 |

Additional Information:

- A safety circuit which covers the following functions is included:
 - Over-charge protection
 - Over-discharge protection
 - Over-current protection
 - Temperature protection
 - Balancing (optional)
- A Display that shows the State of Charge, the Voltage and the Temperature is optional
- Fast charging is optional

Cell Specifications

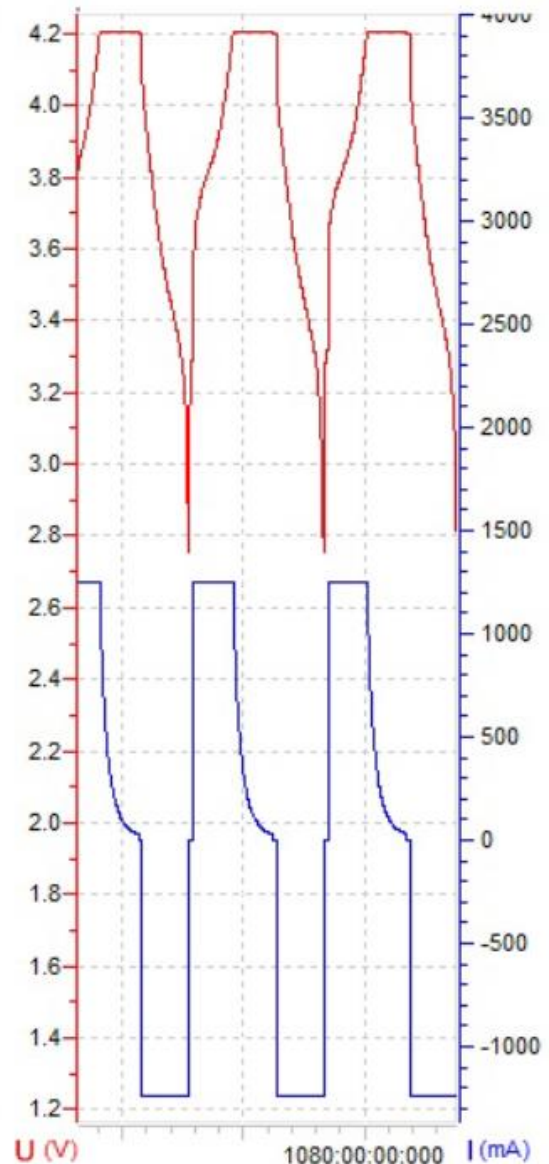
| | |
|------------------|--------------------------|
| Model | 18650 |
| Chemistry | Li(NiCoMn)O ₂ |
| Nominal Voltage | 3.6V |
| Nominal Capacity | 2.4Ah |

IU Charging Regime 18650-2400mAh Cell

I: 0.5C equivalent to 1.2A

U: 4.2V at 25°C

End of charge: 0.02C equivalent to 0.048A



Charging Regime 18650 LiNMC Cell for cycle applications