

## Lithium-ion battery – Data sheet – A18100-M

### Battery Specifications

#### General Specifications

Cell Configuration	7S42P
Nominal Voltage	25.2V
Nominal Capacity (at 20°C, 1C)	100.8Ah
Operating Voltage	21V to 29.4V
Cycle Life (20±5°C, 0.5C, 100% DOD)	>1000 cycles
Terminal	M6

#### Mechanical Specifications

Width	228mm
Height	430mm
Length	168mm
Net Weight	12.65 kg

#### Operation Specifications

##### Charge

Charging Current	50A
Charging Voltage	29.4V

##### Discharge

Operating Current	max. 100A
Maximum Pulse Current (5 sec)	300A

##### 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

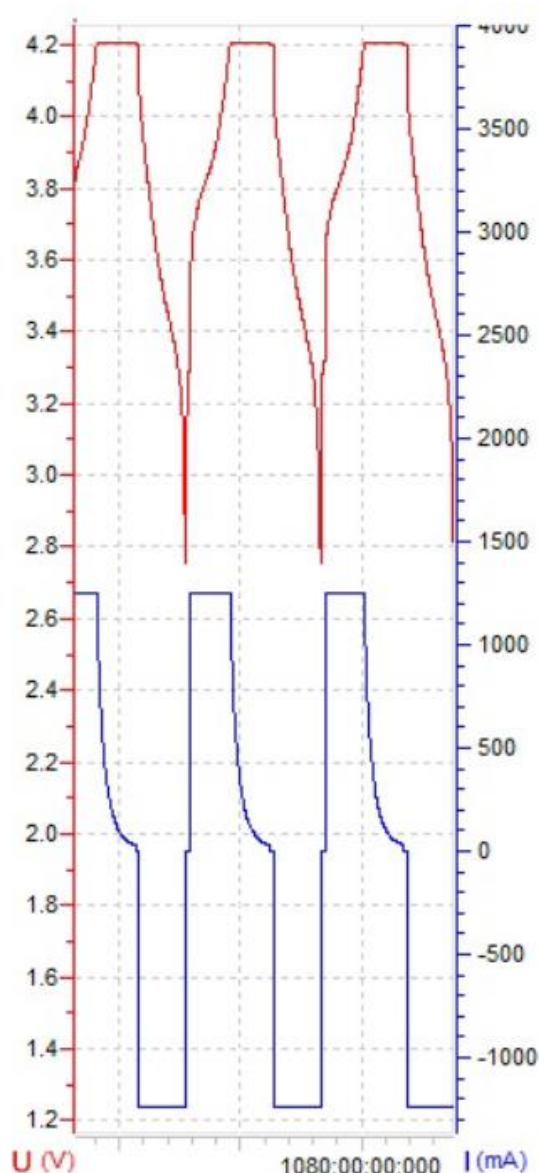
Model	18650
Chemistry	Li(NiCoMn)O <sub>2</sub>
Nominal Voltage	3.6V
Nominal Capacity	2.4Ah

#### 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