

Material Safety Data Sheet

Li-Ion Battery 18 V - 4,0 Ah, Part number 1000001653



Functions

- Intelligent battery management for long-lasting battery packs
- Patented "AIR COOLED" charging technology
- Permanent Electronic Single Cell Protection (ESCP), for particularly long life.
- Processor-controlled charge and discharge management
- Long storage capacity with almost no self-discharge
- LED Fuel gauge, displays remaining capacity
- No memory effect, Long storage capacity with almost no self-discharge

Characteristics

Voltage-Capacity-Energy-Power-Current	18V-4,0Ah-72Wh- 900W-50A-107Wh/kg-112Wh/L
Cell dimension / number off cells	18650 / 5S2P = 10 cells
Weight / Size	670g (4Ah, 5,2Ah), 650g (3Ah) / L121 x W80,5 x H66
Life cycle	> 500 cycles, C > 70% (T Ambient = 25°C, ½ I Nominal)
State of charge	25 - 30%

LED-Display

State of charge	LED1>20%, LED2>40%, LED3>60%, LED4>80% (7s)
Battery empty	LED1<20%, 2 times flashing
Electronic awake	LED 4, short flashing each 15 sec
Over voltage, Wire break	LED 1, 2 and 4, short flashing each 15 sec

Battery Charging

Battery must only be charged using original ROTHENBERGER chargers!

Environmental Conditions

Temperature range	Storage: -20°C G 60°C / Application: -20°C G 50°C
Humidity	< 90% (non-condensing)
Vibrations- and Shock stress	< 5G, (x-, y-, z-axis)

Certification

Battery is certified regarding UN Transportation 38.3 and IEC 62133

Transportation

Shipping of the battery must guarantee according ZVEI-EPTA-IVG-guidelines

<http://www.zvei.org/Verband/Fachverbaende/Elektrowerkzeuge/Seiten/Neue-Merkblaetter-Transport-von-Lithium-Ionen-Batterien.aspx>

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