

BAT 144

RECHARGEABLE LITHIUM-ION BATTERY



Specially designed for harsh environments, the BAT 144 block battery is based on state-of-the-art in energy storage technologies.

Benefits:

- Extended autonomy and life,
- Wide operating temperature range,
- Recommended for ruggedized system,
- Suitable for devices used in explosive atmospheres.

Main applications:

- Miners cap lamps,
- Safety torches,
- Portable gas detectors,
- Air monitoring equipment.
- Gas tanks level monitoring.

- ◆ Rechargeable lithium-ion battery: 14 V/4,8 Ah
- ◆ Inside charger
- ◆ Wide input voltage range 20 V to 36 V DC/30 W
- ◆ High energy density: (335 Wh/1, 140 Wh/kg)
- ◆ Unrivalled low temperature performance
- ◆ Excellent charge recovery after long storage, even at high temperature
- ◆ Long cycle life (over 70% initial capacity after 500 cycles 100% DoD)
- ◆ Compliance with EN 50020 "Intrinsic Safety" Standard (class T6 assignment)
- ◆ Non-restricted for transport
- ◆ Maintenance-free

APPLICATIONS

- Miners cap lamps,
- Safety torches,
- Portable gas detectors,
- Air monitoring equipment,
- Gas tanks level monitoring

SPECIFICATIONS*

CHARGER SECTION	
Input voltage	20 V to 36 V DC
Power required	40 W
Automatic charge method	constant current / constant voltage
Monitoring	Margining controller End charge control Thermal feedback to maximize charging rate without risk or over heating Over current load
Nominal charge current	1,5 A
Charge temperature range	- 20°C to + 60°C
Charge time at 20°C	3 / 4 h
BATTERY	
Type	Lithium-ion High performance Medium Prismatic Cell
Nominal voltage 1A at 20°C	14,6 V
Nominal Capacity	4,8 Ah at 1A - 20°C - 12 V cut off
Max continuous discharge	5 A
Current Pulse discharged current	10 A
Discharge cut off voltage	12 V
Discharge temperature range	- 20°C to + 70°C

SPECIFICATIONS*

IDENTIFICATION PROM	
Link	i2c
Tracking	Serial number, storage operators of available capacity (0 to 100 %), firmware, etc...
PHYSICAL FEATURES	
Max depth	5,46 cm
Max width	13,9 cm
Max height	7,4 cm
Volume	562 cm3
Lithium equivalent content	40 g
Typical weight	900 g
Interconnect	D-Micro miniature 15 pins male
EUROPEAN STANDARDS	
	CE Compliance (EMC - EN 61326 - EN 55011 Class A)
	ROHS - 2002/95/EC

**Specifications given for 25°C*

ORDERING INFORMATION

BAT144	Rechargeable lithium-ion battery
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Specifications are subject to change. Please, verify the latest specifications prior order.

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