



Battery Charger R&S® IC 3001

The R&S® IC 3001 is a vehicular charger for the R&S® M3TR Li-Ion Battery Packs R&S® IB 3001. One battery can be charged at a time. The charger is a rugged and waterproof unit for use mainly in military vehicles. The input voltage range is 10 V to 33 V DC.

The R&S® IC 3001 can be installed in vehicles with its mounting plate in horizontal or vertical position.

Charging of the battery starts automatically after the battery has been connected to the charger. As soon as a battery is charged to the desired level, the charger automatically stops charging. Batteries can therefore remain in the charger without any risk of overcharging.

If a non-rechargeable battery (e.g. R&S® IB 3002 Li-S battery) is accidentally connected to the charger, the type of battery is detected automatically, and no charging takes place. A red LED lights up to inform the user that the wrong battery is connected.



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Display and user interface

The charger is equipped with a red and a green LED providing the following information:

LED status	Meaning
both LEDs off	no or non-rechargeable battery connected to slot
green LED on	charging
green LED flashing	charging completed
red LED flashing	defective battery or other error

In addition, a LED bar displays the actual battery charge status in four steps:

LED status	Meaning
LED 0 % to 25 %	0 % to 25 % charged
LED 25 % to 50 %	25 % to 50 % charged
LED 50 % to 75 %	50 % to 75 % charged
LED 75 % to 100 %	75 % to 100 % charged



Specifications

Power supply	
Voltage	10 V to 33 V DC
Max. current primary	11 A
No load current	0.5 A
Charging	
Charging current	2.5 A
Charger voltage	32.8 V (–0%/+1%)
Conditions for start of charging	
Temperature of battery	+0 °C to +60 °C
Conditions for end of charging	
Time limit	7 h
Temperature limit	+60 °C
Undercurrent limit	100 mA
Environmental specifications	
Temperature range	
Operating temperature range	–40 °C to +70 °C
Fully specified temperature range	0 °C to +55 °C
Storage temperature range	–40 °C to +85 °C
Humidity (without condensation)	acc. to MIL-STD-810E method 507.3
Vibration	acc. to MIL-STD-810E, method 514.4, category 8, ground mobile
Shock	acc. to MIL-STD-810E, method 516.4
Class of protection	immersion 1 m depth during 2 h, acc. to MIL-STD-810E method 512.3
EMC	acc. to MIL-STD-461E, method CE102, RE102
Mechanical specifications	
Dimensions (W × H × D)	232 mm × 120 mm × 95 mm
Weight (without battery pack)	2.2 kg

Ordering information

Designation	Type	Order No.
Battery Charger	R&S®IC 3001	6095.5755.02
Power Supply Cable for Battery Charger R&S®IC 3001	R&S®GK 3020	6118.1508.03



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