

TECHNICAL DATA SHEET

RRC-SMB-UBC-DIS

Distributed by:



RRC
SETTING STANDARDS
IN POWER SOLUTIONS

RRC-SMB-UBC-DIS

Standard battery conditioner
for smart batteries

P/N: 110063



Features:

- Ensures batteries are discharge to 30% state of charge (or less) for transportation.
- Places batteries in very low power mode called "ship mode" to limit self-discharge.
- For the standard battery form factors RRC20xx or smart batteries with a similar footprint
- Simple operation – Plug and Play
- External power supply for worldwide use
- Country specific AC input cables available

Applications:

Standard conditioning/discharging station for mobile devices used in medical, industrial and consumer markets

Specification

Input		
Voltage range	19.00 – 26.00VDC	
Current	3.40A max.	
Power	65.00W	
Protection	Over current (fuse protected), under voltage	
Output		
Voltage range	0 - 17.40VDC	
Current range	0 - 4.80A	
Voltage tolerance ⁽¹⁾	±1% max.	
Current tolerance ⁽¹⁾	±10% max. @1.00A, ±3% max. @4.00A	
Charge power	60.00W max.	
Protection	Short circuit, over temperature shutdown, input-/output over current	
Environmental		
Ambient Temperature	Operation: 0°C to 40°C	Storage: -30°C to 80°C
Pressure and Altitude	1060hPa to 533hPa -382m to 5000m	1060hPa to 533hPa -382m to 5000m
Humidity (non-condensing)	8% to 90% r.H.	5% to 95% r.H.
General		
Efficiency	~95% at 100% load	
Indicator	Multi-color LED (green, red, orange)	
Battery types	Standard battery form factors RRC20x or smart batteries with a similar footprint	
Green procurement	RoHS 2011/65/EU + 2015/863 REACH 1907/2006 WEEE 2012/19/EU Chinese RoHS	
Cooling	convection cooled	
LED Indications		
One time Red/Orange/Green	Self-test: Charger is ready for use.	
Green/Red blinking	Charger identifies inserted battery.	
Orange	Progress indication – The battery is being charged.	
Orange blinking	Progress indication – The battery is being discharged.	
Green	Success indication - The battery successfully charged/discharged to transport State of Charge and is set into ship mode.	
Red	Error indication - The battery was not successfully charged/discharged to transport State of Charge or is not set into ship mode.	
Red blinking	The temperature of the battery is too low or too high.	
Charger Mechanical Details		
Housing dimensions (LxWxH)	151 x 90 x 43mm	
Weight	198g (excluding power supply)	
Safety & EMC		In combination with included external AC/DC power supply
Regulatory approvals	Europe International	EN62368-1 (CE) IEC62368-1 (CB)
Electromagnetic Emissions	Europe USA	EN55011, EN55032, level B FCC15 class B
Electromagnetic Immunity	ESD immunity Electromagnetic field immunity EFT / Burst Surge Conducted Immunity Magnetic Fields Voltage dips, short instrumentations & voltage variations Immunity characteristics	EN/IEC61000-4-2 EN/IEC61000-4-3 EN/IEC61000-4-4 EN/IEC61000-4-5 EN/IEC61000-4-6 EN/IEC61000-4-8 EN/IEC61000-4-11 EN55024

Specification external AC/DC power supply

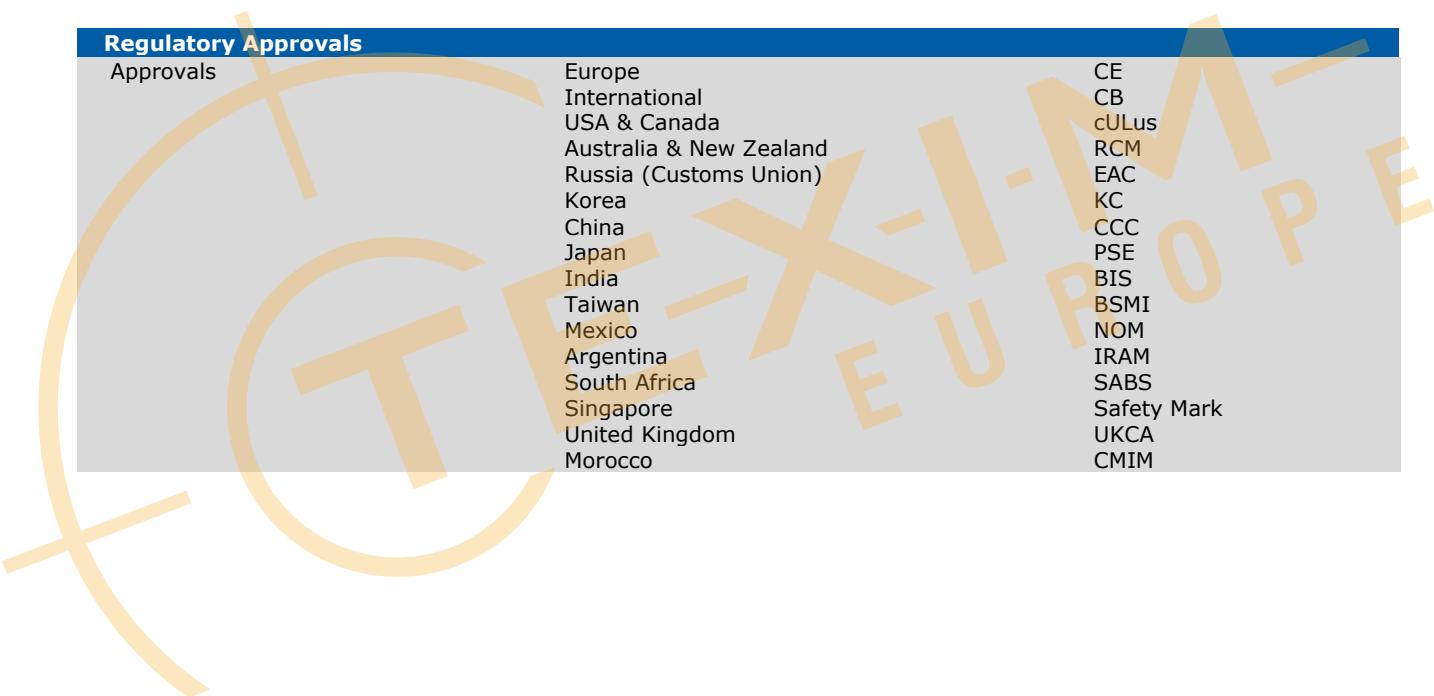
Input	
Voltage range	100.00 – 240.00VAC ±10%, 50-60Hz
Current	1.70A max.
Stand by power	< 0.21W @ no load
Output	
Voltage range	19.00VDC ± 10%
Power	65.00W max.
Current range	3.40A max.
Protection	Short circuit, over voltage, over current, over temperature
General	
Efficiency	California's Energy Efficiency Level VI
Ripple & Noise	300mV (p-p)
Power Supply Mechanical Details	
Standard output connector	DC barrel jack, 5.5 x 2.5mm
Housing dimensions (LxWxH)	95 x 50 x 25.4mm
Weight	270g
Cable length	1600mm

Regulatory Approvals

Approvals

Europe
 International
 USA & Canada
 Australia & New Zealand
 Russia (Customs Union)
 Korea
 China
 Japan
 India
 Taiwan
 Mexico
 Argentina
 South Africa
 Singapore
 United Kingdom
 Morocco

CE
 CB
 cULus
 RCM
 EAC
 KC
 CCC
 PSE
 BIS
 BSMI
 NOM
 IRAM
 SABS
 Safety Mark
 UKCA
 CMIM



Recommended Accessories

Type	Product	P/N	Application
3-pol AC-Cable		US-Version 210950 EU-Version 210951 UK-Version 211333 AU-Version 211334	Country specific power cable for standard battery chargers from RRC and PS65.
Car Adapter DC/DC		RRC-SMB-CAR	110041
			90W car adapter with USB charging port. Power supplying in cars and trucks for standard battery chargers and power management modules from RRC or mobile devices.


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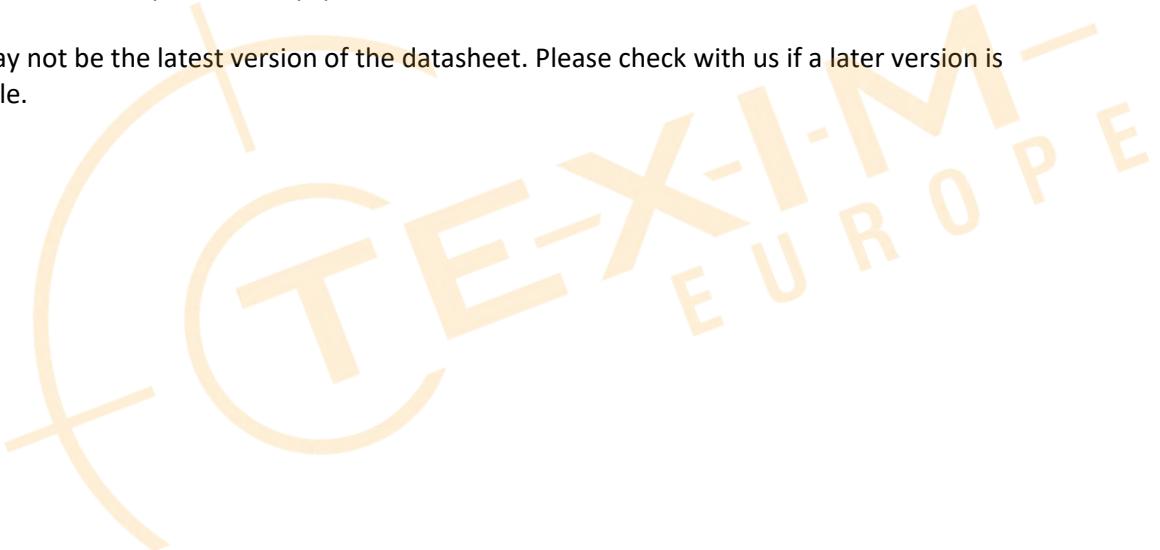
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

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