

RRC-SMB-1BC

Standard battery charger
for smart batteries

P/N: 110345

Distributed by:



Features:

- For the standard battery form factors RRC203x, RRC204x and RRC205x or smart batteries with a similar footprint
- Optimized charging process for RRC batteries:
 - Longer cycle life
 - Faster charging
- Simple operation – Plug and Play
- External power supply for worldwide use
- Country-specific AC input cables available

Applications:

Standard charging station for mobile devices used in medical, industrial and consumer markets

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Specification



Input		
Voltage range	19.00 – 24.00VDC	
Current	2.37A max.	
Power	45.00W	
Output		
Voltage range	0 - 17.40VDC	
Current range	0 - 4.70A	
Voltage tolerance	±1% max.	
Current tolerance	±10% max. @1.00A, ±3% max. @4.00A	
Charge power	45.00W max.	
Protection	Short circuit, over temperature shutdown, input-/output over current	
Environmental		
	Operation:	Storage:
Ambient Temperature	0°C to 35°C	-30°C to 80°C
Pressure and Altitude	1060hPa to 533hPa -382m to 5000m	1060hPa to 533hPa -382m to 5000m
Humidity (non-condensing)	5% to 90% r.H.	5% to 95% r.H.
General		
Efficiency	~95% at 100% load	
Indicator	Multi-color LED	
Battery types	Standard battery form factors RRC203x, RRC204x and RRC205x or smart batteries with a similar footprint	
Green procurement	RoHS 2011/65/EU + 2015/863/EU REACH 1907/2006 WEEE 2012/19/EU Chinese RoHS	
Cooling	convection cooled	
LED Indications		
White blinking (1-2 seconds)	Charger is plugged in	
LED off	Charger is ready for use, and no battery is installed	
Red blinking	Charger has an error	
White blinking	Battery is plugged in and recognized	
White breathing (slow blinking)	Battery is charging. SoC below 100%	
Green continuously illuminated	Battery is fully charged	
Yellow blinking	Reversible errors	
Red continuously illuminated	The battery has a severe defect, or it is a non-smart battery	
Charger Mechanical Details		
Housing dimensions (LxWxH)	120x64x43 (mm)	
Weight	~110g (without power supply)	
Safety & EMC		
	In combination with included external AC/DC power supply	
Regulatory approvals	Europe	EN62368-1 (CE)
	International	IEC62368-1 (CB)
Electromagnetic Emissions	Europe	EN55032, EN55035, level B
	USA	FCC15 class B
	Canada	ICES-003, class B
Electromagnetic Immunity	ESD immunity	EN/IEC61000-4-2
	Electromagnetic field immunity	EN/IEC61000-4-3
	EFT / Burst	EN/IEC61000-4-4
	Surge	EN/IEC61000-4-5
	Conducted Immunity	EN/IEC61000-4-6
	Magnetic Fields	EN/IEC61000-4-8
	Voltage dips, short interruptions & voltage variations	EN/IEC61000-4-11
	Immunity characteristics	EN55035

Specification external AC/DC power supply (PS45)

P/N: 212721

Input	
Voltage range	100.00 – 240.00VAC ±10%, 50-60Hz
Stand by power	< 0.075W @ no load
Output	
Voltage range	19.00VDC ± 5%
Power	45.00W max.
Current range	2.37A max.
Protection	Short circuit, over voltage, over current, over temperature
General	
Efficiency	California's Energy Efficiency Level VI
Ripple & Noise	380mV (p-p)
Power Supply Mechanical Details	
Standard output connector	DC barrel jack, 5.5 x 2.5 x 10mm
Housing dimensions (LxWxH)	95 x 40 x 26.5mm
Weight	~155g
Cable length	1600mm ±50mm
Regulatory Approvals	
Approvals	<div> <div>Europe</div> <div>International</div> <div>USA & Canada</div> <div>Australia & New Zealand</div> <div>Russia (Customs Union)</div> <div>Korea</div> <div>China</div> <div>Japan</div> <div>India</div> <div>Taiwan</div> <div>Thailand</div> <div>Argentina</div> <div>Singapore</div> <div>United Kingdom</div> <div>Morocco</div> <div>Mexico</div> <div>South Africa</div> <div>Israel</div> </div> <div> <div>CE</div> <div>CB</div> <div>cULus</div> <div>RCM</div> <div>EAC</div> <div>KC</div> <div>CCC</div> <div>PSE</div> <div>BIS</div> <div>BSMI</div> <div>TISI</div> <div>IRAM</div> <div>Safety Mark</div> <div>UKCA</div> <div>CMIM</div> <div>NOM</div> <div>SABS</div> <div>SII</div> </div>

Recommended Accessories

Type	Product	P/N	Application	
3-pol AC-Cable		US-Version EU-Version UK-Version AU-Version CN-Version	210950 210951 211133 211134 211959	Country specific power cable for standard battery chargers from RRC and PS45.
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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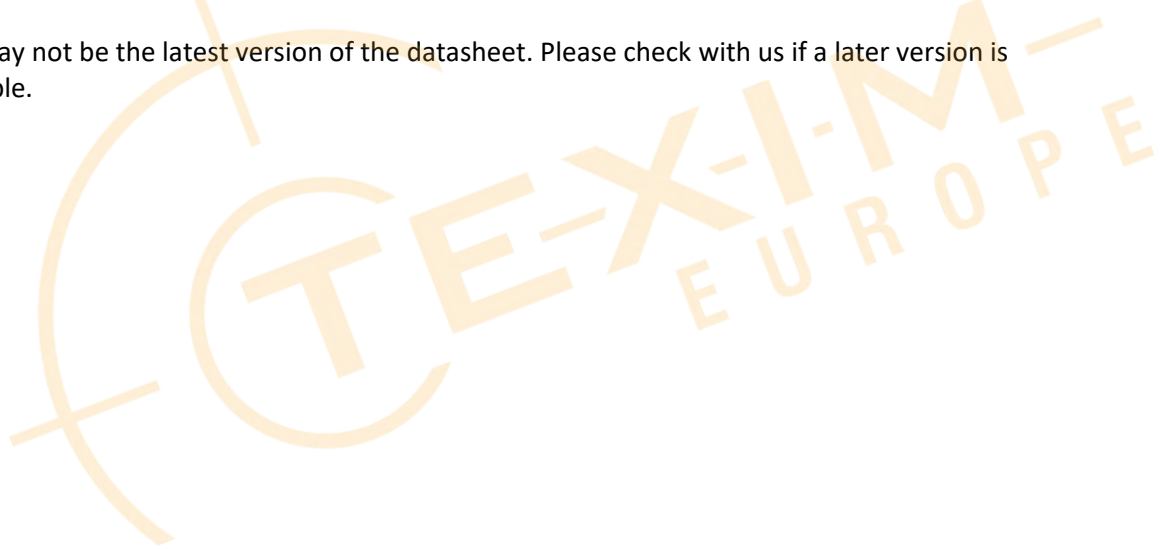
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

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.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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