

RRC-SMB-2BC

Dual bay standard battery charger
for smart batteries

P/N: 110352

Distributed by:



Features:

- For the standard battery form factors RRC203x, RRC204x or RRC205x smart batteries
- Optimized charging process for RRC batteries:
 - Longer cycle life
 - Faster charging
- Simple operation – Plug and Play
- Automatic recognition and calibration of smart batteries
- 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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Characteristics

Input		
Voltage	19.00 – 24.00VDC	
Current	5.30A max.	
Power	100.00W	
Protection	Over-current (fuse protected), under voltage	
Output		
Voltage	0 - 17.40VDC	
Current	0 - 4.70A	
Voltage tolerance	±1% max.	
Current tolerance	±10% max. @1.00A, ±3% max. @4.00A	
Charge power	50.00W max. per Bay	
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 & 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 (white, green, red, yellow)	
Battery types	Standard battery form factors RRC203x, RRC204x or RRC205x smart batteries	
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)	120x120x46 (mm)	
Weight	~223g (without 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 interruptions & 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 for external AC/DC power supply (PS100)

P/N: 212532

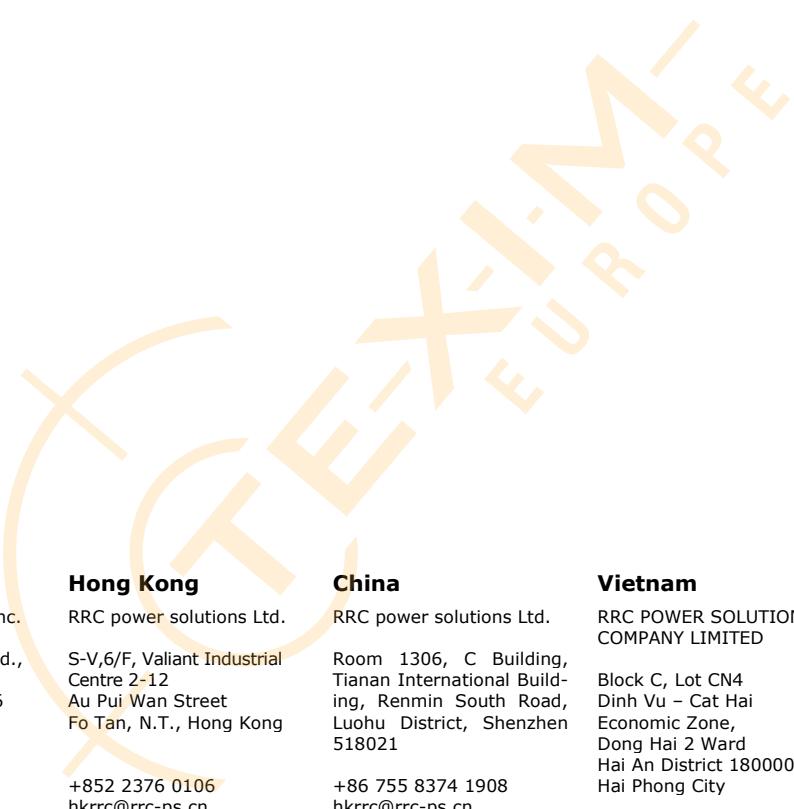
Input																																					
Voltage	100.00 – 240.00VAC $\pm 10\%$, 50-60Hz																																				
Stand by power	< 0.15W @ no load																																				
Output																																					
Voltage range	20.00VDC $\pm 5\%$																																				
Power	100.00W max.																																				
Current range	5A 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)	127 x 51 x 30mm																																				
Weight	~325g																																				
Cable length	1600mm ± 50 mm																																				
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Approvals	<table> <tbody> <tr> <td>Europe</td><td>CE</td></tr> <tr> <td>International</td><td>CB</td></tr> <tr> <td>USA & Canada</td><td>cULus</td></tr> <tr> <td>Australia</td><td>RCM</td></tr> <tr> <td>Russia (Customs Union)</td><td>EAC</td></tr> <tr> <td>Korea</td><td>KC</td></tr> <tr> <td>China</td><td>CCC</td></tr> <tr> <td>Japan</td><td>PSE</td></tr> <tr> <td>India</td><td>BIS</td></tr> <tr> <td>Taiwan</td><td>BSMI</td></tr> <tr> <td>Mexico</td><td>NOM</td></tr> <tr> <td>Argentina</td><td>IRAM</td></tr> <tr> <td>South Africa</td><td>SABS</td></tr> <tr> <td>Singapore</td><td>Safety Mark</td></tr> <tr> <td>United Kingdom</td><td>UKCA</td></tr> <tr> <td>Morocco</td><td>CMIM</td></tr> <tr> <td>Malaysia</td><td>SIRIM</td></tr> <tr> <td>Israel</td><td>SII</td></tr> </tbody> </table>	Europe	CE	International	CB	USA & Canada	cULus	Australia	RCM	Russia (Customs Union)	EAC	Korea	KC	China	CCC	Japan	PSE	India	BIS	Taiwan	BSMI	Mexico	NOM	Argentina	IRAM	South Africa	SABS	Singapore	Safety Mark	United Kingdom	UKCA	Morocco	CMIM	Malaysia	SIRIM	Israel	SII
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Israel	SII																																				

Recommended Accessories

Type	Product	P/N	Application
3-pol AC-Cable			
	US-Version	210950	
	EU-Version	210951	
	UK-Version	211133	
	AU-Version	211134	
	CN-Version	211959	



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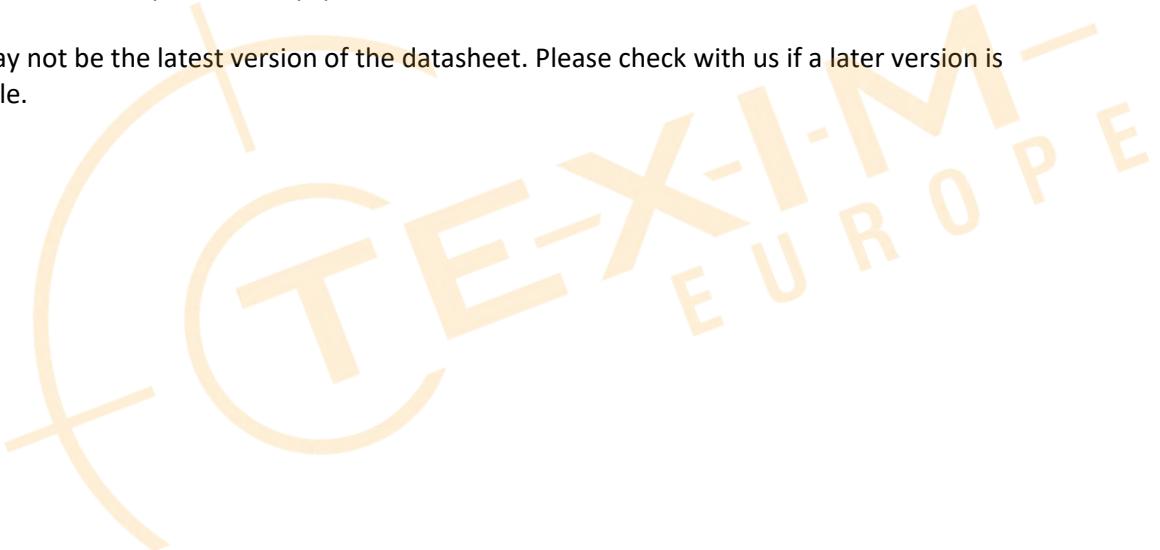
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All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

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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