

## RRC-SMB-4BC

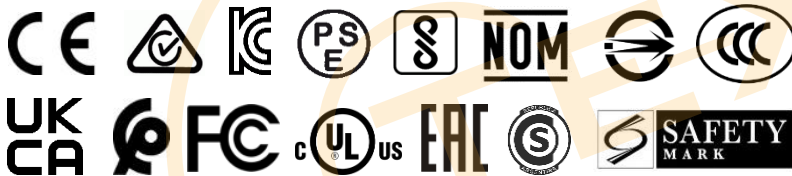
4-bay standard battery charger  
for smart batteries

P/N: 110329

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Picture only for reference



### Features

- 100W 4-bay charger
- Prioritized charging possible: faster charging of one bay integrated, triggered by push button
- For the standard battery form factors RRC203x, RRC204x, and RRC205x
- 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 desktop charger for smart batteries powering mobile devices used in e.g. medical, industrial, and consumer markets.

## Specification



Input		
Voltage	19.00 – 24.00VDC	
Current	5.3A 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. @1.0A, ±3% max. @4.00A	
Charge power	100.00W max., two charging sources with 50.00W each	
Protection	Short circuit, over temperature shutdown, input-/output over current	
Environmental		
	Operation:	Storage:
Ambient Temperature	0°C to 40°C	-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 90% r.H.
General		
Efficiency	~95% at 100% load	
Indicator	Multi-color LED (green, red, yellow, white)	
Battery types	Standard battery form factors RRC203x, RRC204x and RRC205x	
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	
Yellow light	Charger has an error	
White blinking	Battery is plugged in and recognized	
White pulsating (slow blinking)	Battery is charging. SoC below 80%.	
White continuously illuminated	Battery SoC above 80%, charger is still charging	
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	
White light (Illumination ring)	The prioritized charging mode for the left bay is activated: Continuous charging of the left bay at the highest allowed speed. The other bays operate with reduced charging power.	
Charger Mechanical Details		
Housing dimensions (LxWxH)	220x120x46 (mm)	
Weight	~420g (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 Canada Korea	EN55032, EN55035, level B FCC15 class B ICES-003 KCC
Electromagnetic Immunity	Electromagnetic field immunity EFT / Burst Surge Conducted Immunity Magnetic Fields Voltage dips, short instrumentations & voltage variations	EN/IEC61000-4-3 EN/IEC61000-4-4 EN/IEC61000-4-5 EN/IEC61000-4-6 EN/IEC61000-4-8 EN/IEC61000-4-11

## Specification for external AC/DC power supply (RRC-PS100)

P/N: 212532

Input	
Voltage	100.00 – 240.00VAC ±10%, 50-60Hz
Stand by power	< 0.15W @ no load
Output	
Voltage range	20.00VDC ± 5%
Power	100.00W max.
Current range	5.00A 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 11mm
Housing dimensions (LxWxH)	127 x 51 x 30mm
Weight	325g ± 5%
Cable length	1600mm ± 50mm
Regulatory Approvals	
Approvals	<div><div>Europe</div><div>International</div><div>USA &amp; Canada</div><div>Australia</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>Mexico</div><div>Argentina</div><div>South Africa</div><div>Singapore</div><div>United Kingdom</div><div>Morocco</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>NOM</div><div>IRAM</div><div>SABS</div><div>Safety Mark</div><div>UKCA</div><div>CMIM</div><div>S-Mark</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 PS100.
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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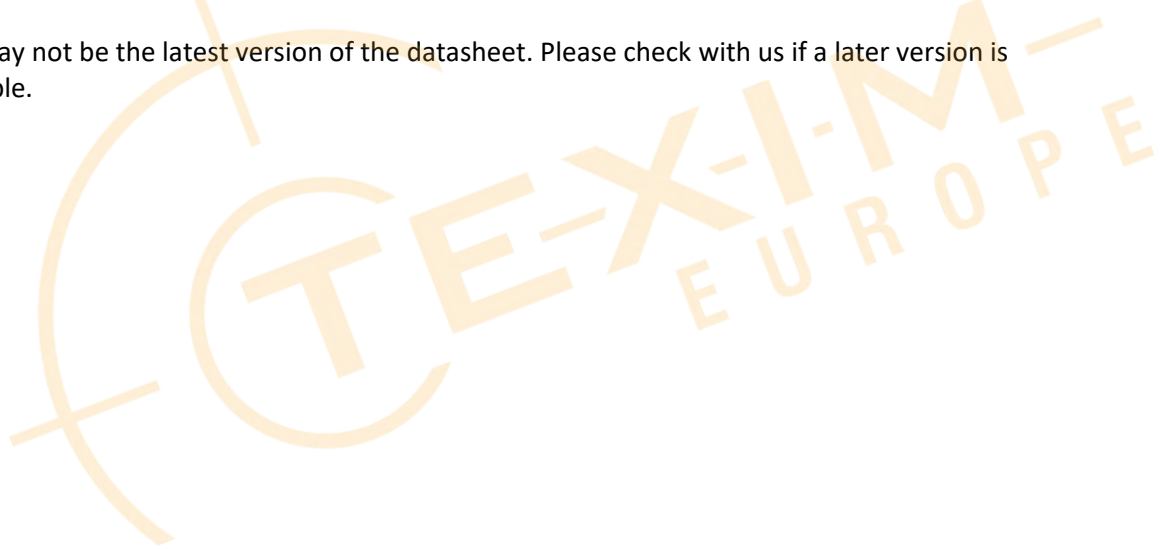
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All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

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

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