

RRC-SMB-2BC

Dual bay standard battery charger
for smart batteries

P/N: 110352

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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.

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		
	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 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)	120x116x46 (mm)	
Weight	~223g (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	EN55011, EN55032, level B
	USA	FCC15 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	EN55024

Specification for external AC/DC power supply (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	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 ±50mm
Regulatory Approvals	
Approvals	Europe International USA & Canada Australia Russia (Customs Union) Korea China Japan India Taiwan Mexico Argentina South Africa Singapore United Kingdom Morocco Malaysia Israel CE CB cULus RCM EAC KC CCC PSE BIS BSMI NOM IRAM SABS Safety Mark UKCA CMIM SIRIM SII

Recommended Accessories

Type	Product	P/N	Application
3-pol AC-Cable	US-Version	210950	Country-specific power cable for standard battery chargers from RRC and PS100.
	EU-Version	210951	
	UK-Version	211133	
	AU-Version	211134	
	CN-Version	211959	



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