

RRC-SMB-2BC

Dual bay standard battery charger
for smart batteries

P/N: 110352



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	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

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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