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.

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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	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 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

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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

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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.

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