

RRC-SMB-HBC

Standard battery charger for smart batteries P/N: 110311





Features

- 100W single-bay charger
- For the standard battery form factors RRC35xx or smart batteries with a similar footprint
- 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 charging station for mobile devices used in medical, industrial, and consumer markets



Characteristics

Input			
Voltage range	19.00 - 24.00VDC		
Current	5.3A max.		
Power	100.00W max.		
Output			
Voltage range	0 – 29.40VDC		
Current range	0 - 4.20A		
Voltage tolerance	±1% max.		
Current tolerance	±10% max. @1.00A ±3% max. @4.00A		
Charge power	90.00W max.		
Protection	Short circuit, over temperature shutdown, inp	out-/output over current	
Environmental			
· · · · <u>-</u> · ·	•	rage:	
Ambient Temperature		°C to 80°C	
Pressure and Altitude	-382m to 2000m -382	0hPa to 533hPa 2m to 5000m	
Humidity (non-condensing)	8% to 90% r.H. 5%	to 95% r.H.	
General			
Efficiency	~95% at 100% load		
Indicator	Multi-color LED		
Battery types	Standard battery form factors RRC35xx or smart batteries with a similar footprin		
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 has been recognized, 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 is charged from 80% SoC		
Green continuously illuminated	Battery is fully charged		
Yellow blinking	Reversible errors		
Red continuously illuminated	The battery has a severe defect, or it is a no	n-smart battery	
Charger Mechanical Details	125 x 67 x 53mm		
	125 x 67 x 53mm 170g (excluding power supply)		
Housing dimensions (LxWxH) Weight			
Housing dimensions (LxWxH)		AC/DC power supply	
Housing dimensions (LxWxH) Weight	170g (excluding power supply) In combination with included external A Europe	EN62368-1 (CE)	
Housing dimensions (LxWxH) Weight Safety & EMC	170g (excluding power supply) In combination with included external A		



Specification external AC/DC power supply

Input				
Voltage range	100.00 - 240.00VAC ±10%, 50-60Hz	100.00 – 240.00VAC ±10%, 50-60Hz		
Current	1.90A max.			
Stand by power	0.15W @ no load	0.15W @ no load		
Output				
Voltage range		20.00VDC ± 5%; Ripple < $380mV_{pk-pk}$		
Power		100.00W max.		
Current range		5A max.		
Protection	Short circuit, over-voltage, over-curre	Short circuit, over-voltage, over-current, over temperature		
General				
Efficiency	California's Energy Efficiency Level VI	California's Energy Efficiency Level VI		
Ripple & Noise	380mV (p-p)			
Power Supply Mechanical Details	5			
Standard output connector	DC barrel jack, 5.5 x 2.5 x 11mm	DC barrel jack, 5.5 x 2.5 x 11mm		
Housing dimensions (LxWxH)	127 x 51 x 30mm	127 x 51 x 30mm		
Weight	400g max.	400g max.		
Cable length	1500mm +/-50	-		
Regulatory Approvals				
Approvals	Europe	CE		
	International	CB		
	USA & Canada	cULus		
	Australia & New Zealand	RCM		
	Russia (Customs Union)	EAC		
	Korea	KC		
	China	CCC		
	Japan	PSE		
	India Taiwan	BIS BSMI		
	Mexico	NOM		
	Argentina	IRAM		
	Singapore	Safety Mark		
	South Africa	SABS		
	Morocco	CMIM		
	United Kingdom	UKCA		
	Israel	SII		



Recommended Accessories

Туре	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 stand- ard battery chargers from RRC, PS65 and PS100.

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