

RRC-SMB-HBC

Standard battery charger
for smart batteries

P/N: 110311



COMING
SOON

Picture only for reference



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 – 30.45VDC	
Current range	0 – 6.00A	
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, input-/output over current	
Environmental		
	Operation:	Storage:
Ambient Temperature	0°C to 40°C	-30°C to 80°C
Pressure and Altitude	1060hPa to 795hPa -382m to 2000m	1060hPa to 533hPa -382m 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 footprint	
Green procurement	RoHS 2011/65/EU + 2015/863/EU REACH 1907/2006 WEEE 2012/19/EU Chinese RoHS	
Cooling	convection cooled	
LED Indications		
	TBC	
Charger Mechanical Details		
Housing dimensions (LxWxH)	125 x 67 x 53mm	
Weight	170g (excluding 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 instrumentations & 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 EN55035

Specification external AC/DC power supply

Input		
Voltage range	100.00 – 240.00VAC ±10%, 50-60Hz	
Current	5A max.	
Stand by power	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-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	400g max.	
Cable length	1800mm +250/-0	
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	BIS
	Taiwan	BSMI
	Mexico	NOM
	Singapore	Safety Mark
	United Kingdom	UKCA
	Morocco	CMIM

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 PS65.
	EU-Version	210951	
	UK-Version	211133	
	AU-Version	211134	
	CN-Version	211959	
Car Adapter DC/DC 	RRC-SMB-CAR	110041	90W car adapter with USB charging port (charging power 90W max.). Power supply in cars and trucks for standard battery chargers and power management modules from RRC or mobile devices.

Preliminary

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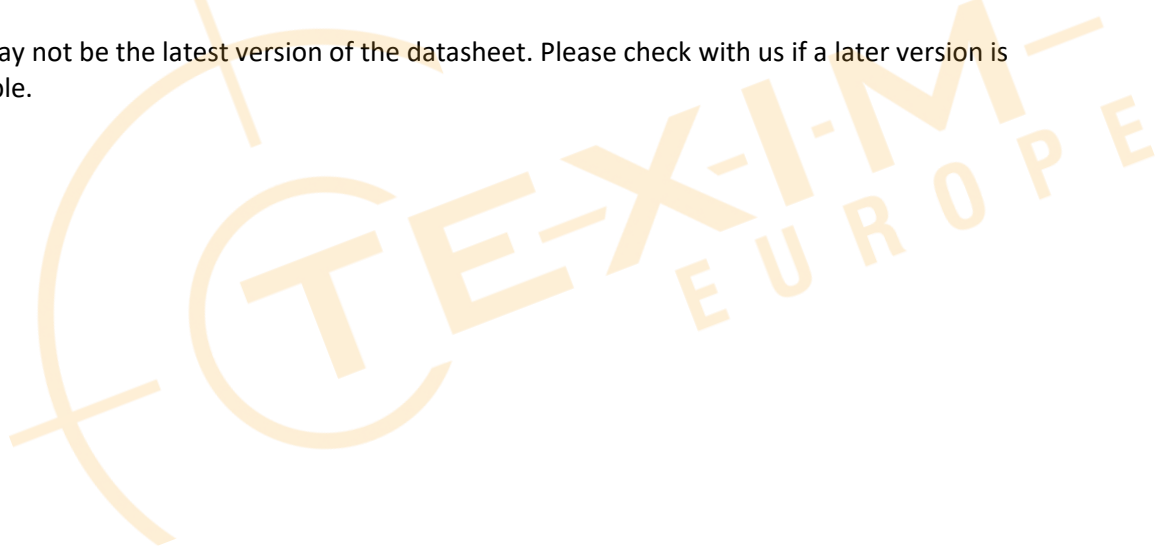
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

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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