

RRC-SMB-UBC

Standard battery charger
for smart batteries

P/N: 100485



Features:

- 60W Single bay fast charger
- For the standard battery form factors RRC20xx or smart batteries with a similar footprint
- Optimized charging process for RRC batteries
 - Longer cycle life
 - Faster charging
- Simple operation – Plug and Play
- Automatic recognition and calibration of smart battery learned capacity
- 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



Specification

Input		
Voltage range	19.00 – 26.00VDC	
Current	3.40A max.	
Power	65.00W	
Protection	Over current (fuse protected), under voltage	
Output		
Voltage range	0 - 17.40VDC	
Current range	0 - 4.80A	
Voltage tolerance	±1% max.	
Current tolerance	±10% max. @1.00A, ±3% max. @4.00A	
Charge power	60.00W 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 (green, red, orange)	
Battery types	Standard battery form factors RRC20x 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		
One time Red/Orange/Green	Self-test: Charger is ready for use.	
Red/Green blinking	Battery recognition and initialization.	
Orange blinking	The battery is currently being calibrated.	
Orange light	The inserted battery is of the correct type and is currently being charged.	
Green light	The battery is charged and can be removed for use.	
Red blinking	The battery is too hot or too cold to be charged without damage. If the battery is too cold it will be charged as soon as it has warmed up sufficiently. If the battery is too hot it should be removed to cool down.	
Red light	The battery is damaged or it is a conventional battery which cannot be recharged.	
Charger Mechanical Details		
Housing dimensions (LxWxH)	151 x 90 x 43mm	
Weight	198g (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	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 instrumentations & voltage variations	EN/IEC61000-4-11
	Immunity characteristics	EN55024

Specification external AC/DC power supply

Input		
Voltage range	100.00 – 240.00VAC ±10%, 50-60Hz	
Current	1.70A max.	
Stand by power	< 0.21W @ no load	
Output		
Voltage range	19.00VDC ± 5%; Ripple < 300mV _{pk-pk}	
Power	65.00W max.	
Current range	3.42A max.	
Protection	Short circuit, over voltage, over current, over temperature	
General		
Efficiency	California's Energy Efficiency Level VI	
Ripple & Noise	300mV (p-p)	
Power Supply Mechanical Details		
Standard output connector	DC barrel jack, 5.5 x 2.5 x 11mm	
Housing dimensions (LxWxH)	95 x 50 x 25.4mm	
Weight	270g	
Cable length	1600mm ±50mm	
Regulatory Approvals		
Approvals	Europe International USA & Canada Australia & New Zealand Russia (Customs Union) Korea China Japan India Taiwan Mexico Argentina South Africa Singapore United Kingdom Morocco	CE CB cULus RCM EAC KC CCC PSE BIS BSMI NOM IRAM SABS Safety Mark UKCA 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. Power supplying in cars and trucks for standard battery chargers and power management modules from RRC or mobile devices.

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