

RRC-SMB-MBC-M

Medical standard battery charger
for smart batteries

P/N: 110104



Features:

- 50W single bay charger
- For the standard battery form factors RRC203x, RRC204x and RRC205x or smart batteries with a similar footprint
- Optimized charging process for RRC batteries:
 - Longer cycle life
 - Faster charging
- Simple operation – Plug and Play
- External medical power supply for worldwide use
- Country specific AC input cables available

Applications:

Standard charging station for mobile devices used in medical market

Specification

Input	
Voltage range	19.00 – 26.00VDC
Current	2.80A max.
Power	50.00W

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	50.00W max.
Protection	Short circuit, over temperature shutdown, input-/output over current

Environmental		
	Operation:	Storage:
Ambient Temperature	0°C to 40°C	-20°C to 80°C
Pressure and Altitude	1060hPa to 540hPa -382m to 5000m	1060hPa to 540hPa -382m to 5000m
Humidity (non-condensing)	20 to 80% r.H.	10 to 90% r.H.

General	
Efficiency	~95% at 100% load
Indicator	Multi-color LED (green, red, orange)
Battery types	Standard battery form factors RRC203x, RRC204x and RRC205x 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 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)	120 x 64 x 43mm
Weight	110g (excluding power supply)

Safety & EMC	In combination with included external AC/DC power supply	
Regulatory approvals	Europe International	CE 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 EN55024

Specification external, medical power supply AC/DC

Input		
Voltage range	100.00 – 240.00VAC, 50 to 60 Hz	
Current	1.60A max.	
Stand by power	< 0.21W @ no load	
Output		
Voltage range	19.00VDC ± 5%; Ripple < 190mVpk-pk	
Power	65.17W max.	
Current range	3.43A	
Protection	Short circuit, over-voltage, over-current	
General		
Efficiency	California's Energy Efficiency Level VI	
Ripple & Noise	190mV (p-p)	
Power Supply Mechanical Details		
Standard output connector	DC barrel jack, 5.5 x 2.5 x 11mm	
Housing dimensions (LxWxH)	119 x 60 x 36mm, without cables and connectors	
Weight	310g, without input cable	
Cable length	1500mm ±30mm	
Regulatory Approvals		
Safety	ITE Medical	CE, PSE cULus, T-mark, EN / IEC60601-1
EMI	Europe USA & Canada United Kingdom Morocco	CE FCC 15 class B UKCA CMIM

Recommended Accessories

Type	Product	P/N	Application
2-pol AC-Cable	US-Version	201497	Country specific power cable for medical battery chargers and medical power supplies from RRC.
	EU-Version	201496	



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