RRC-SMB-MBC-M



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Medical standard battery charger for smart batteries P/N: 110104





Features:

- 50W single bay charger
- For the standard battery form factors RRC204x, RRC205x and RRC203x 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				
Power	50.00W	2.80A max.		
i owei	50.00W			
Output				
Voltage range	0 - 17.40VDC			
Current range	0 - 4.80A			
Voltage tolerance ⁽¹⁾		±1% max.		
Current tolerance ⁽¹⁾	±10% max. @1.00A, ±3% max. @4.00A			
Charge power		50.00W max.		
Protection	Short circuit, over temperature shutdown, i	input-/output over current		
Environmental				
Cooling	convection cooled			
Temperature	Operating: 0°C to 40°C	Non-operating: -10°C to 70°C		
Pressure & Altitude	Operating:	Non-operating:		
	1060hPa to 795hPa	1060hPa to 572hPa -382m to 4570m		
Humidity	-382m to 2000m 5% to 95% r.H., non-condensing	-382m to 4570m		
Thanhalty	5 % to 95 % f.m., non-condensing			
General				
Efficiency ⁽²⁾	~95% at 100% load			
Indicator	Multi-color LED (green, red, orange)			
Battery types	batteries with a similar footprint			
Green procurement	RoHS 2011/65/EU WEEE 2012/19/EU Chinese RoHS			
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	The inserted battery is of the correct type and is currently being charged.		
Green light	The battery is charged and can be remove	d for use.		
Red blinking	If the battery is too cold it will be charged	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 convention recharged.	The battery is damaged or it is a conventional battery which cannot be		
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, EN55022, level 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			
Current	1.60A max.			
Stand by power	No load < 0.21W @ 230.00VAC			
Output				
Voltage range	19.00VDC			
Power	65.00W max.	65.00W max.		
Current range	3.43A			
Protection	Over voltage, over current, short circuit			
Environmental				
Temperature	Operating:	Non-operating		
	0°C to 40°C	-20°C to 80°C		
General				
Efficiency		California's Energy Efficiency Level VI, EsP (Stage 2), GEMS, NRCam, CEC, EPA		
Ripple & Noise	190mV (p-p)			
Power Supply Mechanical Details				
Standard output connector	DC barrel jack, 5.5 x 2.5mm			
Housing dimensions (LxWxH)	119 x 60 x 36mm			
5 ()				
Weight	310g			
Regulatory Approvals				
Safety	ITE	CE, PSE		
	Medical	cULus, T-mark,		

Safety	ITE Medical	CE, PSE cULus, T-mark, EN / IEC60601-1
EMI	Europe USA / Cananda	CE FCC 15 class B

Recommended Accessories

Туре		Product	P/N	Application
2-pol AC-Cable	-9	US-Version EU-Version	201497 201496	Country specific power cable for medical battery chargers and medical power supplies from RRC.

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