

RRC-SMB-UBC-M

Medical standard battery charger for smart batteries

P/N: 110115











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 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	3.40A max.
Power	65.00W

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	60.00W max.
Protection	Short circuit, over temperature shutdown, 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: 1060hPa to 795hPa -382m to 2000m	Non-operating: 1060hPa to 572hPa -382m to 4570m

Humidity 5% to 95% r.H., non-condensing

General			
Efficiency	~95% at 100% load		
Indicator	Indicator Multi-color LED (green, red, orange)		
Battery types Standard battery form factors RRC20xx or smart batteries with a sin			
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 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.

	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	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	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		
	Immunity characteristics	EN55024		

Input



Specification external medical AC/DC power supply

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	3.43A		
Protection	Over voltage, over current, short circu	Over voltage, over current, short circuit		
Environmental				
Temperature	Operating:	Non-operating		
	0°C to 40°C	-10°C to 80°C		
General				
Efficiency	California's Energy Efficiency Level VI, E	rP (Stage 2), GEMS, NRCam, CEC, EPA		
Ripple & Noise	190mV (p-p)			
Power Supply Mechanical Details				

Power Supply Mechanical Details		
Standard output connector	DC barrel jack, 5.5 x 2.5mm	
Housing dimensions (LxWxH)	119 x 60 x 36mm	
Weight	310g	

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

Recommended Accessories

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

Germany/Headquarters	USA	Hong Kong	China
RRC power solutions GmbH Technologiepark 1 66424 Homburg / Saar	RRC power solutions Inc. 18340 Yorba Linda Blvd., # 107-437 Yorba Linda, CA 92886-4104	RRC power solutions Ltd. S-V,6/F, Valiant Industrial Centre 2-12 Au Pui Wan Street Fo Tan, N.T., Hong Kong	RRC power solutions Ltd. Room 1306, C Building, Tianan International building, Renmin South Road, Luohu District, Shenzhen 518021
Tel.: +49 6841 98090 Fax: +49 6841 9809280 Email: sales@rrc-ps.de Web: www.rrc-ps.de	Tel.: +1 714 777 3604 Fax: +1 714 777 3658 Email: usa@rrc-ps.com Web: www.rrc-ps.com	Tel.: +852 2376 0106 Fax: +852 2375 0107 Email: hkrrc@rrc-ps.cn Web: www.rrc-ps.com	Tel.: +86 755 8374 1908 Fax: +86 755 8374 1861 Email: hkrrc@rrc-ps.cn Web: www.rrc-ps.com