







Specification RRC-SMB-UBC

Medical Standard Battery Charger RRC-SMB-UBC-M for Smart Batteries

Features:

- 65W Single bay fast charger
- For the standard battery pack form factors RRC2020, 2024, 2040, 2040-2, 2054, 2054-2, 2057 or smart batteries with a similar footprint (e.g. 202x range, 204x range, 205x range, DR36, etc.)
- 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

Taput			Output			
Input Nominal Voltage range Current Power	19 - 26VDC 3400mA max. 65W		Output Voltage range Current range Voltage tolerance Current tolerance Protection	0 - 17.4VDC 0 - 4.8A ±1% max. ±10% max. @1A, ±3% max. @4A Short circuit Over temperature shutdown Input-/output over current		
Environmental			General			
Cooling Temperature	ing convection cooled perature Operating: 0°C to 40°C Non-operating -10°C to 70°C		Efficiency Indicator Battery types	~95% at 100% load Multi-color LED (green, red, orange) Standard battery form factors RRC2020, 2024, 2040, 2040-2,		
Pressure &			Green	2054, 2054-2, 2057 or smart batteries with a similar footprint (e.g. 202x range, 204x range, 205x range, DR36, etc.) RoHS 2011/65/EU		
Altitude	1060hPa to 795hPa -382m to 2000m Non-operating: 1060hPa to 572hPa -382m to 4570m		procurement	WEEE 2012/19/EU Chinese RoHS		
Humidity	5% to 95% r.H., non-con- densing					
LED Indications						
One time Red/Orange/G	reen	Selftest: Charger is ready for use.				
Red/Green blinking	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.				

RRC-SMB-UBC-M



Charger Mechanical Details								
Housing dimensions (LxWx	H) 151 x 90 x 43mm	151 x 90 x 43mm						
Weight	198g (excluding power sup	198g (excluding power supply)						
Safety & EMC In combination with included								
	external AC/DC power supply							
Regulatory approvals	Europe	CE						
Electromagnetic	Europe	EN55011, EN55032, level B						
Emissions	USA	FCC15 class B						
Electromagnetic	ESD immunity	EN/IEC61000-4-2						
Immunity	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						
	5	,						
	Voltage dips, short instrumentations & voltage variations	EN/IEC61000-4-11						
	Immunity characteristics	EN55024						

Specification external medical power supply AC/DC

Input			Output				
Voltage range Current Stand by power	100 - 240VAC 1.6A max. No load < 0.21W @ 230 VAC		Nominal Voltage Power Current range Protection	19VDC 65W max. 0 - 3.43A Over voltage, over current, Short circuit			
Environmental			General				
Temperature	Operating: 0°C to 40°C		Efficiency	DoE VI, ErP (Stage 2), GEMS, NRCan, CEC, EPA			
	Non-operating -10°C to 80°C		Ripple & Noise	190mV (p-p)			
Power Supply Mechanical Details							
Standard output connector Housing dimensions (LxWxH) Weight		DC barrel jack (Ø5.5 x Ø2.5 x 9.5mm) 119 x 60 x 36mm 310g					
Safety & EMC							
Safety	ITE Medical		CE, PSE cULus, T-mark, EN/IEC60601-1				
EMI	Europe USA / Car	Europe USA / Canada		CE FCC15 class B			

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