

RRC-SMB-UBC-DIS

Standard battery conditioner
for smart batteries

P/N: 110063

**Features:**

- Ensures batteries are discharge to 30% state of charge (or less) for transportation.
- Places batteries in very low power mode called "ship mode" to limit self-discharge.
- For the standard battery form factors RRC20xx or smart batteries with a similar footprint
- Simple operation – Plug and Play
- External power supply for worldwide use
- Country specific AC input cables available

Applications:

Standard conditioning/discharging 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⁾	±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		
	Operation:	Storage:
Ambient Temperature	0°C to 40°C	-30°C to 80°C
Pressure and Altitude	1060hPa to 533hPa -382m to 5000m	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 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.	
Green/Red blinking	Charger identifies inserted battery.	
Orange	Progress indication – The battery is being charged.	
Orange blinking	Progress indication – The battery is being discharged.	
Green	Success indication - The battery successfully charged/discharged to transport State of Charge and is set into ship mode.	
Red	Error indication - The battery was not successfully charged/discharged to transport State of Charge or is not set into ship mode.	
Red blinking	The temperature of the battery is too low or too high.	
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 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 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 ± 10%	
Power	65.00W max.	
Current range	3.40A 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 2.5mm	
Housing dimensions (LxWxH)	95 x 50 x 25.4mm	
Weight	270g	
Cable length	1600mm	
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 EU-Version 210951 UK-Version 211333 AU-Version 211334	Country specific power cable for standard battery chargers from RRC and PS65.
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.

Germany/HQ
 RRC power solutions GmbH
 Technologiepark 1
 66424 Homburg / Saar
 +49 6841 98090
 sales@rrc-ps.com

USA
 RRC power solutions Inc.
 18340 Yorba Linda Blvd.,
 # 107-437
 Yorba Linda, CA 92886
 +1 714 777 3604
 usa@rrc-ps.com

Hong Kong
 RRC power solutions Ltd.
 S-V,6/F, Valiant Industrial
 Centre 2-12
 Au Pui Wan Street
 Fo Tan, N.T., Hong Kong
 +852 2376 0106
 hkrrc@rrc-ps.cn

China
 RRC power solutions Ltd.
 Room 1306, C Building,
 Tianan International Building,
 Renmin South Road,
 Luohu District, Shenzhen
 518021
 +86 755 8374 1908
 hkrrc@rrc-ps.cn

Vietnam
 RRC POWER SOLUTIONS
 COMPANY LIMITED
 Block C, Lot CN4
 Dinh Vu – Cat Hai
 Economic Zone,
 Dong Hai 2 Ward
 Hai An District 180000
 Hai Phong City
 vietnam@rrc-ps.com