

RRC-SMB-DBC

Dual bay standard battery charger
for smart batteries

P/N: 110111



Features:

- 60W dual bay 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 batteries
- 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



Specification

Input		
Voltage	19.00 – 26.00VDC	
Current	3.40A max.	
Power	65.00W	
Protection	Over current (fuse protected), under voltage	
Output		
Voltage	0 - 17.40VDC	
Current	0 - 4.80A	
Voltage tolerance	±1% max.	
Current tolerance	±10% max. @1.00A, ±3% max. @4.00A	
Charge power	30.00W max. per Bay	
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 & 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 RRC20xx 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 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.	
Charger Mechanical Details		
Housing dimensions (LxWxH)	155 x 175 x 43mm	
Weight	325g (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	EN/IEC61000-4-2
	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
	Voltage dips, short instrumentations & voltage variations	EN/IEC61000-4-11
	Immunity characteristics	EN55024

Specification for external AC/DC power supply

Input		
Voltage	100.00 – 240.00VAC ±10%, 50-60Hz	
Current	1.70A max.	
Stand by power	< 0.21W @ no load	
Output		
Voltage range	19.00VDC ± 5%; Ripple < 300mV _{pk-pk}	
Power	65.00W max.	
Current range	3.42A 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 2.5 x 11mm	
Housing dimensions (LxWxH)	95 x 50 x 25.4mm	
Weight	270g	
Cable length	1600mm ±50mm	
Regulatory Approvals		
Approvals	Europe	CE
	International	CB
	USA & Canada	cULus
	Australia	RCM
	Russia (Customs Union)	EAC
	Korea	KC
	China	CCC
	Japan	PSE
	India	BIS
	Taiwan	BSMI
	Mexico	NOM
	Argentina	IRAM
	South Africa	SABS
	Singapore	Safety Mark
	United Kingdom	UKCA
	Morocco	CMIM

Recommended Accessories

Type	Product	P/N	Application
3-pol AC-Cable	 US-Version EU-Version UK-Version AU-Version CN_Version	210950 210951 211133 211134 211959	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 Ltd.

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