

RRC-SMB-PBC

Desktop battery charger
for RRC3570-4

P/N: 110365

Distributed by:



Features:

- 100W single-bay charger
- For RRC3570-4 and POWERBLOQ 400
- Optimized charging process for RRC batteries:
 - Longer cycle life
 - Faster charging
- Simple operation – Plug and Play
- 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

Characteristics

Input	
Voltage range	19.00 – 24.00VDC
Current	5.3A max.
Power	100.00W max.

Output	
Voltage range	0 – 29.40VDC
Current range	0 – 4.20A
Voltage tolerance	±1% max.
Current tolerance	±10% max. @1.00A ±3% max. @4.00A
Charge power	90.00W 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 795hPa -382m to 2000m	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
Battery types	Standard battery form factors RRC35xx 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	
White blinking (1-2 seconds)	Charger is plugged in
LED off	Charger has been recognized, is ready for use and no battery is installed
Yellow light	Charger has an error
White blinking	Battery is plugged in and recognized
White pulsating (slow blinking)	Battery is charging. SoC below 100%.
Green continuously illuminated	Battery is fully charged
Yellow blinking	Reversible errors
Red continuously illuminated	The battery has a severe defect, or it is a non-smart battery

Charger Mechanical Details	
Housing dimensions (LxWxH)	125 x 67 x 53mm
Weight	170g (excluding power supply)

Safety & EMC		In combination with included external AC/DC power supply
Regulatory approvals	Europe	EN62368-1 (CE)
	International	IEC62368-1 (CB)
Electromagnetic Emissions	Europe	EN55011, EN55032, level B
	USA	FCC15 class B
	Canada	ICES-003, 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	EN55035

Specification external AC/DC power supply

Input	
Voltage range	100.00 – 240.00VAC ±10%, 50-60Hz
Current	1.90A max.
Stand by power	0.15W @ no load

Output	
Voltage range	20.00VDC ± 5%; Ripple < 380mV _{pk-pk}
Power	100.00W max.
Current range	5A max.
Protection	Short circuit, over-voltage, over-current, over temperature

General	
Efficiency	California's Energy Efficiency Level VI
Ripple & Noise	380mV (p-p)

Power Supply Mechanical Details	
Standard output connector	DC barrel jack, 5.5 x 2.5 x 11mm
Housing dimensions (LxWxH)	127 x 51 x 30mm
Weight	400g max.
Cable length	1600mm +/-50mm

Regulatory Approvals		
Approvals	Europe International USA & Canada Australia Russia (Customs Union) Korea China Japan India Taiwan Thailand Mexico Argentina South Africa Singapore United Kingdom Morocco South Africa Israel	CE CB cULus RCM EAC KC CCC PSE BIS BSMI TISI NOM IRAM SABS Safety Mark UKCA CMIM S-Mark SII

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 (charging power 90W max.). Power supply 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.
Flat F43, 7/F, Wah Lok Industrial Centre (Phase 2),
31-35 Shan Mei Street, Fo Tan, N.T.

+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

Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Texim Europe B.V. its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Texim"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Texim makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product.

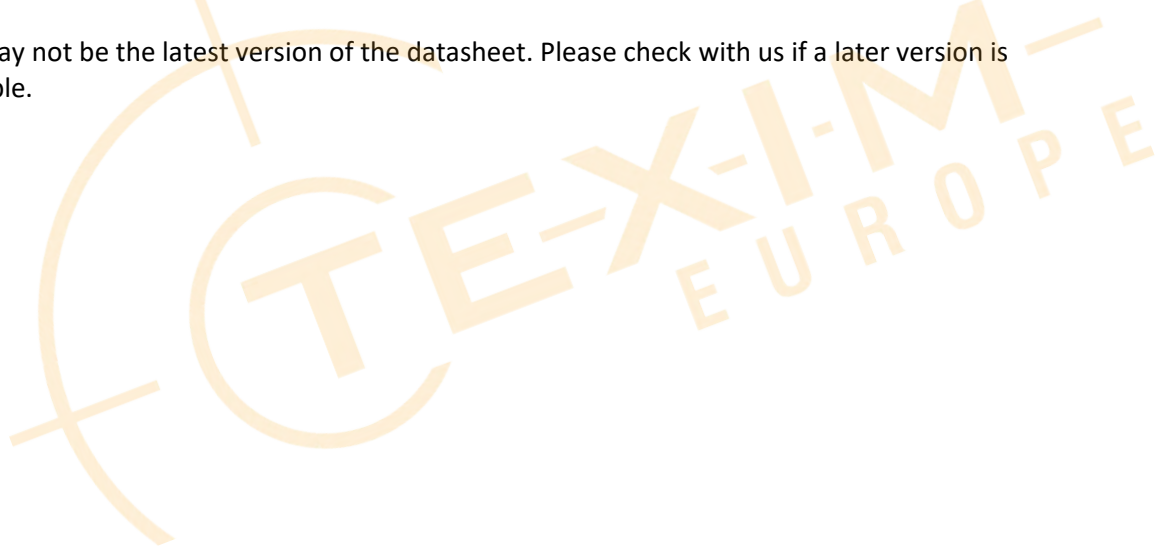
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





Headquarters & Warehouse

Elektrostraat 17
NL-7483 PG Haaksbergen
The Netherlands

T: +31 (0)53 573 33 33
E: info@texim-europe.com
Homepage: www.texim-europe.com



The Netherlands

Elektrostraat 17
NL-7483 PG Haaksbergen

T: +31 (0)53 573 33 33
E: nl@texim-europe.com



Belgium

Zuiderlaan 14, box 10
B-1731 Zellik

T: +32 (0)2 462 01 00
E: belgium@texim-europe.com



UK & Ireland

St Mary's House, Church Lane
Carlton Le Moorland
Lincoln LN5 9HS

T: +44 (0)1522 789 555
E: uk@texim-europe.com



Germany

Bahnhofstrasse 92
D-25451 Quickborn

T: +49 (0)4106 627 07-0
E: germany@texim-europe.com



Germany

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: muenchen@texim-europe.com



Austria

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: austria@texim-europe.com



Nordic

Stockholmsgade 45
2100 Copenhagen

T: +45 88 20 26 30
E: nordic@texim-europe.com



Italy

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: italy@texim-europe.com