

# Technical Data Sheet

## Power Management Module RRC-PMM240



### Power Management Module for Mobile Applications

#### Features:

- 240 Watt max. output power to application
- 82 Watt max. output power to battery
- Automatic power source selection
- Wide DC input voltage range
- 3D data available of power management module and batteries for easy integration into user application
- Fits to standard smart batteries from RRC (e.g. RRC2020, RRC2024, RRC2040, RRC2040-2, RRC2054, RRC2057, ...)

#### Applications:

- Power management and smart battery charging capability for medical and industrial applications

### Specification

| Power supply Input  |  |
|---------------------|--|
| Input voltage range | Min. Battery charge voltage+1V<br>Max. 24VDC |
| Total input power   | 192W max.                                    |
| Input current       | 8A max.                                      |
| Input fuse          | 12A  |
| Protection          | Reverse polarity, short current              |

| Power Management   |  |
|--|--|
| Automatic power source selection with seamless transition between ext. DC power supply and battery |  |

| Environmental Condition         |                         |
|---------------------------------|-------------------------|
| Operating Temperature           | -20° to +60°C           |
| Transport & Storage Temperature | -20° to +60°C           |
| Relative Humidity               | 5% - 95% non-condensing |
| Ambient pressure                | 500-1070hPa             |

| Recommended Voltage for External AC/DC Power Supplies |                  |   |   |
|---|------------------|---|---|
| Battery architecture                                  | DC input voltage | Power supply wattage @ 4A max input current | Power supply wattage @ 8A max input current |
| 1SxP  | 6VDC             | ≥30W  | ≥60W  |
| 2SxP  | 12VDC            | ≥48W  | ≥96W  |
| 3SxP  | 15VDC            | ≥64W  | ≥128W                                       |
| 4SxP  | 19VDC            | ≥80W  | ≥160W                                       |

| Regulatory Approvals                                    |   |
|---|---|
| International: IEC 60601-1(ed.3), IEC 60601-1(ed.3);am1 | USA: ANSI/AAMI ES60601-1:2005/(R)2012<br>Canada: CAN/CSA-C22.2 NO. 60601-1:14 |

| Mechanical Details       |   |
|--------------------------|---|
| Board dimensions (LxWxH) | 60mm x 50mm x 11mm, without cables and connectors   |
| Weight                   | Typical 22g   |
| Connectors:              | DC input & DC output (2 pin) / User interface (6 pin) / Battery connector (5 pin smart battery connector) |

To facilitate a fast design-in process for developers, RRC is providing 3D data of the power management module RRC-PMM240 and the battery housings of RRC smart battery. For an application note related to the power management module with additional details contact your RRC representative. For further information on the RRC smart batteries please refer to the RRC website ([www.rrc-ps.com](http://www.rrc-ps.com)).

| Germany/Headquarters  | USA   | Hong Kong   | China  |
|---|---|---|--|
| RRC power solutions GmbH<br>Technologiepark 1<br>D-66424 Homburg / Saar | RRC power solutions Inc.<br>18340 Yorba Linda Blvd.,<br>Suite 107-437<br>Yorba Linda, CA 92886-4104 | RRC power solutions Ltd.<br>S-V,6/F, Valiant Industrial Centre<br>2-12 Au Pui Wan Street<br>Fo Tan, N.T., Hong Kong | RRC power solutions Ltd.<br>Room 520, Yuanlin Building,<br>Aiguo Road No. 3066,<br>Luohu District, Shenzhen 518021 |
| Tel.: +49 6841 98090  | Tel.: +1 714 777 3604   | Tel.: +852 2376 0106  | Tel.: +86 755 8374 1908  |
| Fax: +49 6841 9809280   | Fax: +1 714 777 3658  | Fax: +852 2375 0107   | Fax: +86 755 8374 1861   |
| Email: sales@rrc-ps.de  | Email: usa@rrc-ps.com   | Email: hkrrc@rrc-ps.cn  | Email: hkrrc@rrc-ps.cn   |
| Web: www.rrc-ps.de  | Web: www.rrc-ps.com   | Web: www.rrc-ps.com   | Web: www.rrc-ps.com  |

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Battery Chargers](#) category:*

*Click to view products by [RRC Power Solutions](#) manufacturer:*

Other Similar products are found below :

[149116](#) [2217331-1](#) [CA0002](#) [CH0011](#) [CB1210A](#) [PS-034052](#) [CH0015](#) [GP U811+ 4X R6 2100MAH](#) [GP X411 AA/AAA + 4X R6 2700MAH](#)  
[RECYKO](#) [CB243A](#) [CB123A](#) [CB1235A](#) [CB2420A](#) [CB12245A](#) [HEP-600C-48](#) [MC1 PLUS NEW](#) [MC2](#) [MC1](#) [BQ-CC55E](#) [VP4 PLUS](#)  
[DRAGON](#) [LCD MULTI CHARGER](#) [MINI-CHARGER](#) [5V 2.1A](#) [PB320](#) [PB50](#) [PB550 + 4XAA 2700MAH](#) [VP2](#) [POCKET-CHARGER +](#)  
[4XAA 2100MAH](#) [PB-300P-12](#) [VC2](#) [79540-5015](#) [MINI CHARGER + 2XAA 2100MAH](#) [ENC-360-12](#) [ENC-360-24](#) [ENC-360-48](#) [HEP-600C-](#)  
[12](#) [HEP-600C-24](#) [CHFC3](#) [ENC-120-12](#) [RCP-1600-24](#) [68532-4461](#) [153117](#) [BVL240600003N](#) [68532-4462](#) [BC7217 120](#) [BVL062000003N](#)  
[68532-4510](#) [PB-120P-54P](#) [TSP-BCM48](#) [1073100064-001](#)