

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 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 Canada: CAN/CSA-C22.2 NO. 60601-1:14
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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).

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