TECHNICAL DATA SHEET

RRC-PMM35



RRC-PMM35

Power Management Module for integration into all applications using the RRC3570 P/N: 110297







Picture only for reference



The PMM35 enables internal charging of batteries and facilitates a seamless switch between mains and battery power, ensuring uninterrupted operation and reliable power backup in a space-saving design. Multiple PMMs can be used in parallel inside one device to combine more batteries.

Features & Benefits

- Easy to design in
 - Easily integrable into slot design
 - Integrated 90° battery connector for different connection options
 - Maximum flexibility: Various mounting options
 - Small footprint & slim design to not waste space within the application
- Plug & Play available embedded charging solution for RRC3570
 - Time to market: no development time, immediate product availability
 - No NRE: no add/tional development, approvals, or design costs
 - Low total cost of ownership
- Power management functionality
 - Seamless switch between mains and battery power
 - Up to 180W charging power in power supply mode
- Fully Compliant with Smart Battery Specification
 - SMBus communication with battery and host
- Worldwide certified for industrial and medical applications
- Configurable
 - Programmable limits for input current, charging current and charging voltage
 - Status signal can directly drive a LED

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Characteristics

Input (Power Supply Output	t)	
Input voltage range	19.00V - 24.00VDC	~ \\
Input power	480.00W max.	
Input current	20.00A max.	\mathcal{N}
Input fuse	TBD	
Protection	Reverse polarity, short current	
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Application Output		

Application Output Total output power 504.00W max. in battery mode 480.00W max, in power supply mode		
	Application Output	
460.00W max. iii power suppry mode	Total output power	504.00W max. in battery mode 480.00W max. in power supply mode
Output current 20.00A max.	Output current	20.00A max.
Output fuse TBD	Output fuse	TBD \\\\

Power Management

Automatic power source selection with seamless transition between ext. DC power supply and battery

Battery Input / Output	
Battery charge voltage	Up to 29.40V
Battery charge current	Up to 6.00A
Battery charge power	Up to 180,00W
Battery discharge current	(20.00A cont.
Protection	Battery short circuit, over temperature, over voltage, over current & reverse polarity
Standby current	TBD

Environmental Condition

Operating Temperature

-20° to 60°C

-20° to 60°C

Relative Humidity

5% - 95% non-condensing

Altitude

5000m for operation and storage

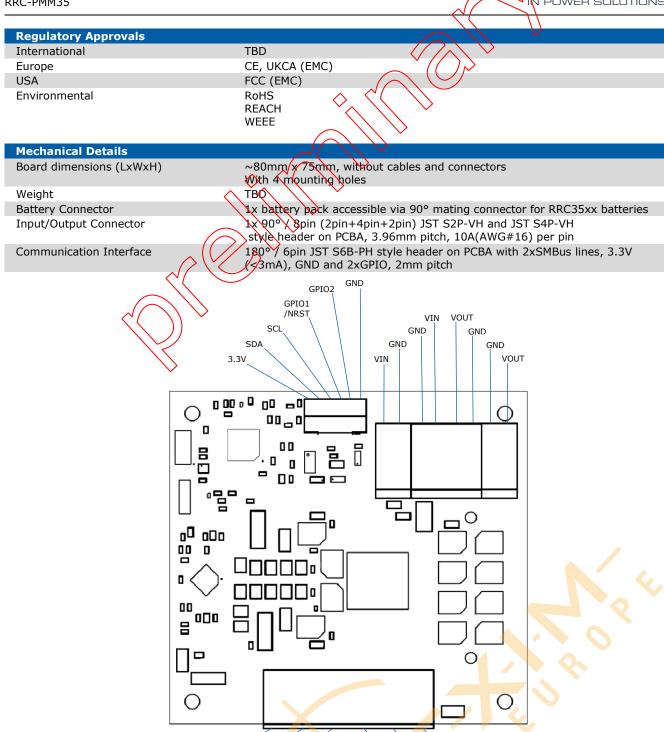


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To facilitate a fast design-in process for developers, RRC is providing 3D data of the power management module RRC-PMM35 and the battery housings of RRC smart battery. For an application note related to the power management module with additional details contact your RRC representative. For further information on the RRC smart batteries please refer to the RRC website (www.rrc-ps.com).

Sys-Press

VBat-

Sys-

SDA

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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.



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