



RRC-PMM35

Power Management Module for integration into all applications using the RRC3570 $_{\text{P/N: }110297}$



Picture only for reference

CB (E 比종 FC 및 ④

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 spacesaving 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 additional 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

RRC-PMM35

Characteristics

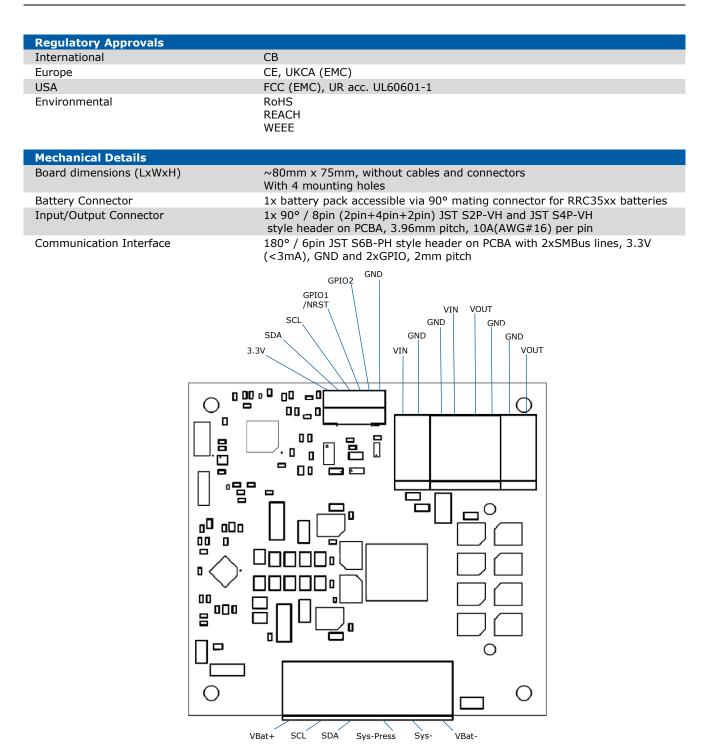


| Input (Power Supply Output) | | | | | |
|--|---|--|--|--|--|
| Input voltage range | 19.00V - 24.00VDC | | | | |
| Input power | 480.00W max. | | | | |
| Input current | 20.00A max. | | | | |
| Protection | Short current | | | | |
| Application Output | | | | | |
| Total output power | 504.00W max. in battery mode 480.00W max. in power supply mode | | | | |
| Output current | 20.00A max. | | | | |
| 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 | | | | |
| Standby current | 0.0015A | | | | |
| | | | | | |
| Environmental Condition | | | | | |
| Operating Temperature | -20° to 60°C | | | | |
| Transport & Storage Temperature | -20° to 60°C | | | | |
| | | | | | |
| Relative Humidity | 5% - 95% non-condensing | | | | |

TECHNICAL DATA SHEET

RRC-PMM35





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 (<u>www.rrc-ps.com</u>).

| Germany/HQ | USA | Hong Kong | China | Vietnam |
|--------------------------|--------------------------|-----------------------------|--------------------------|-------------------------------------|
| RRC power solutions GmbH | RRC power solutions Inc. | RRC power solutions Ltd. | RRC power solutions Ltd. | RRC Power Solutions Company Ltd. |
| Technologiepark 1 | 18340 Yorba Linda Blvd., | S-V,6/F, Valiant Industrial | Room 1306, C Building, | |
| 66424 Homburg / Saar | # 107-437 | Centre 2-12 | Tianan International | Block C, Lot CN4 |
| | Yorba Linda, CA 92886 | Au Pui Wan Street | Building, Renmin South | Dinh Vu – Cat Hai |
| | | Fo Tan, N.T., Hong Kong | Road, Luohu District, | Economic Zone, |
| +49 6841 98090 | | | Shenzhen 518021 | Dong Hai 2 Ward |
| sales@rrc-ps.com | +1 714 777 3604 | | | Hai An District 180000 |
| | usa@rrc-ps.com | +852 2376 0106 | +86 755 8374 1908 | Hai Phong City |
| | | hkrrc@rrc-ps.cn | hkrrc@rrc-ps.cn | <u> </u> |
| | | | | vietnam@rrc-ps.com |