

# PMi-C

## SYSTEM CONTROLLER FOR PMi DC POWER SYSTEMS



PMi-C is the advanced monitoring and control device for PMi DC Power Systems. It delivers intelligence, an easy user interface and a comprehensive set of features for DC Power System management. PMi-C architecture is based on PowerCAN-Bus communication and a modular design, which enables excellent system expandability, selectable additional features and flexibility in design. The PMi-C controller is the universal solution for all MIP family DC Power Systems from 24 VDC up to 220 VDC, and for other modules in the family.

### System features

PMi-C includes key features such as measurements of the individual rectifiers (AC input voltage, DC output current and voltage, temperature) as well as battery and load currents. Plug and play support, system parameters upload and download in XML format, PowerCAN-Bus interface to MRC rectifiers and smart peripheral modules as well as inventory management for installed modules.

Measurements:

- » System output voltage measurement
- » DC output current, total rectifiers

Functions:

- » Energy saving mode with PMi rectifiers
- » Rectifier runtime counter
- » Alarm configuration
- » Real time clock with battery backup
- » Automatic module configuration
- » Site information text input

### Battery management features

PMi-C offers a battery management system that allows for battery testing (manual/periodic), different charging modes such as floating, manual/periodic/automatic boost charge, all with temperature compensation. Multiple configurable alarms as well as a comprehensive data log (512 alarm occurrences, 100 events, and a battery temperature graph and system power log).

- » Natural battery tests, starts on mains fault
- » Charge current limiting
- » Discharged Ah-counter
- » Time window for battery test
- » Alarms:

Mains fault, phase fault, rectifier low/over voltage, system low/over voltage, rectifier over current, system over temperature, high battery temperature, low battery temperature, rectifier fault, module communication error/module fault, load fuse fault, battery LVD or load LVD contactor failure, battery temperature sensor fault, rectifiers no redundancy alarms/rectifiers overload (configurable limits), load disconnect warning (configurable limits), load disconnect, battery fuse fault, battery discharge test fault, boost charge fault, battery disconnect warning (configurable limit), earth fault detection.

## PMi-C & PMi-C I/O

	PMi-C	PMi-C I/O
<b>Power input voltage range</b>	18 – 280 VDC	
<b>Communication ports</b>	10/100 Ethernet, RJ45 connector	
- LAN	10/100 Ethernet, RJ45 connector	
- Serial	RS232, 9600 – 115200 kbps	
<b>REMOTE MONITORING AND CONTROL</b>		
<b>Remote PC connection</b>	Connect via LAN	
<b>Local PC connection</b>	Connect directly with serial port RS232 or LAN port	
<b>Alarms</b>	E-mail or SNMP traps	
<b>Remote user interface</b>	Web interface, 3 access levels	
<b>Remote terminal</b>	Text mode interface over Telnet/SSH	
<b>Supported protocols</b>	HTTP, HTTPS, Telnet, SSH, SMTP, SNMPv2, NTP, DHCP, Modbus TCP/IP	
<b>Languages</b>	English, Russian, Finnish, German	
<b>SYSTEM FEATURES</b>		
<b>Connections</b>	- Battery or load LVD's 1 pcs	
- Alarm/temperature inputs	4	12
- Alarm relay output	4	12
<b>Supported max. number of all modules</b>	48	
<b>Limitations per modules type</b>	Local user interface panel: 1 Rectifiers, supported max. amount: 47 PMi-C-LVD low voltage disconnection modules, supported max. amount of connections: 8 PMi-C-SAM battery management modules, supported max. amount: 16 PMi-C-SAM modules; supported max. amount: 1	
<b>MECHANICAL</b>		
<b>Dimensions (H x W x D)</b>	105 x 40 x 205 mm	
<b>Protection</b>	IP20/IEC 529	
<b>CONNECTORS</b>		
<b>Alarm/temperature input</b>	Screw terminals	
<b>Internal PowerCAN-Bus connector</b>	User interface modules RJ11 / other PowerCAN connectors RJ45	
<b>PowerCAN termination plug</b>	RJ45 plug	
<b>ENVIRONMENTAL</b>		
<b>Cooling</b>	Natural convection	
<b>Acoustic noise</b>	<40 dB (A)	
<b>Operating temperature (min/max)</b>	-20/+50 °C	
<b>Storage temperature (min/max)</b>	-40/+70 °C	
<b>Humidity (max)</b>	95 % (relative humidity, non-condensing)	
<b>Altitude (max)</b>	2000m above sea level	
<b>STANDARDS</b>		
<b>EMC</b>	Emissions: EN/IEC 61000-6-4 / Immunity: EN/IEC 61000-6-2 Harmonic currents: EN/IEC 61000-3-2 / Voltage fluctuations & flicker: EN/IEC 61000-3-3	
<b>Safety</b>	IEC/EN 60950-1	
<b>USER INTERFACE MODULE</b>		
<b>MONITORING AND CONTROL</b>		
<b>Local display</b>	128 x 64 graphical LCD with backlight	
<b>Local operation</b>	Dial button, info button and cancel button	
<b>Local LED indication</b>	3 color system status LED	
<b>Info</b>	Dedicated button to open info text	
<b>Default view</b>	Charge mode, system voltage, number of active alarms	
<b>Languages</b>	English, Russian, Finnish, German, French, Czech	
<b>MECHANICAL</b>		
<b>Dimensions (H x W x D)</b>	80 x 80 x 20 mm	
<b>Protection</b>	IP43/IEC 529	



## AEG Power Solutions

Approach your local AEG Power Solutions representative for further support. Contact details can be found on:

[www.aegps.com](http://www.aegps.com)