

PMi1 100пс-24

PMi1 600пс-48

PMi1 600пс-60

PMi1 600пс-110

PMi1 600пс-125

PMi1 600пс-220



NATURAL COOLED
MODULAR SWITCH-MODE INDUSTRIAL
APPLICATIONS RECTIFIERS

AEG Power Solutions rectifiers assure permanent availability of your global industrial applications.

State of the art natural cooled switch mode technology PMi rectifiers provide secure DC power in combination with a parallel battery, for supply of all types of DC loads. The rectifier delivers 1100W to 1600W output power at 24/48/60/110/125/220VDC with a single phase, semi-wide input voltage range.

The rectifier modules are suitable for charging many types of batteries including: vented lead-acid, valve regulated lead-acid (VRLA) or nickel-cadmium batteries (NiCd). PMi rectifiers may operate either with a system controller or as stand-alone modules, with or without parallel-connected batteries.

The rectifiers can be used in Protect MIP systems.

Key features

- » Convection cooled
- » High reliability and robust design
- » Constant output power characteristics
- » Nominal 230 VAC input, range 140–290 VAC
- » Active load current sharing
- » Internal over temperature protection
- » Digital communication over CAN bus with VIDi controller
- » Full front access to all connections
- » Silent and low maintenance
- » EMC: EN 300 386:2005
- » Safety: IEC/EN 60950-1

SPECIFICATION	PMi1100nc-24	PMi1600nc-48	PMi1600nc-60	PMi1600nc-110	PMi1600nc-125	PMi1600nc-220
AC INPUT						
Input range	140 VAC – 290 VAC (nominal 180 – 275 VAC)					
Start-up voltage	180 VAC					
Reduced output power (active limitation)	140 – 180 VAC, derating factor 1 %/1VAC					
Input frequency range	45 to 65 Hz					
Maximum current (at 180 VAC, full load)	6.9 A	9.7 A	9.8 A	9.6 A	9.6 A	9.6 A
Power factor (typical @ 230 VAC)	0.99 A					
Input protection	Mains fuse Varistor and gas discharge tube for transient surge protection Automatic shut-off above 290VAC (restart at 280VAC)					
DC OUTPUT						
Output voltage range	21 - 30 VDC	42 - 58 VDC	51 - 72 VDC	97 - 132 VDC	97 - 145 VDC	189 - 265 VDC
Output voltage factory set-up	27.3 VAC	54.5 VAC	68.1 VAC	123.6 VAC	136.8 VAC	245.3 VAC
Maximum output current	45.8 A @ 24 V	32.7 A @ 48 V	26.7 A @ 60 V	14.5 A @ 110 V	12.8 A @ 125 V	7.2 A @ 220 V
Constant output power	1100 W	1600 W	1600 W	1600 W	1600 W	1600 W
Hold-up time @ full load, output voltage from nominal to minimum	> 20 ms					
Static voltage regulation (load, line & temp.)	+/- 0.3%					
Dynamic load regulation	±4.0% for 10 %-90 % or 90 %-10 % load step, recovery time < 1.0ms					
Ripple and noise	< 100 mVp-p					
Output protection	Overvoltage shutdown, Current limit/short circuit protection, Power limiting, Internal over temperature protection					
FEATURES						
Efficiency, typical (at 50-85 % load)	90 %	92 %	91 %	> 92 %	> 92 %	> 92 %
Load current share	±5 % from true average current between modules					
Rectifier Alarms	Mains fault alarm (high / low), Low output voltage alarm, Overvoltage shutdown alarm, Rectifier fault alarm, Temperature alarm					
Visual indications	Green LED: ON, no faults Red LED: rectifier fault Blinking Green LED: communication error (controller not present) Blinking Red LED: temporary failure (e.g. mains fault, over temperature) Yellow LED: test mode Blinking Yellow LED: LED test					
Energy save operation mode	See VID1 controller manual					
MECHANICAL						
Dimensions (H x W x D)	230 x 83 x 350 mm					
Weight	4.60 kg					
Enclosure	IP 20/IEC 529					
CONNECTIONS						
Connector, AC	Appliance plug IEC 320/10 A male					
Connector, DC	FCI TwinBlade™ Power IO connector					
Connector, PowerCAN	2*RJ45					
ENVIRONMENTAL						
Cooling	Natural convection					
Acoustic noise	< 40 dB (A)					
Operating temp (min/max)	-20/+50 °C					
Storage temperature (min/max)	-40/+70 °C					
Humidity (max)	95 % (relative humidity, non condensing)					
Altitude (max)	2000 m above sea level					
APPLICABLE STANDARDS						
EMC	ETSI EN 300 386:2005					
Environmental	Operation: ETS 300 019-2-3 cl T3.2 Storage: ETS 300 019-2-1 cl T1.2 Transportation: ETS 300 019-2-2 cl T2.3					
Safety	IEC/EN 60950-1 ed.2 (2005-12)					
Approvals	CE-market, CB-certified					
ROHS, WEEE	2002/95/EC					
Quality	Manufacture and design under control of ISO 9001, ISO 14001					

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