Innovative Stromversorgungsgesellschaft mbH

Rectifier Series PME - Vario

Technical data

- Input voltage: 230 V or 400V/AC +10% -20%
- Input frequency: 45 – 66 Hz
- Rated power data
  a) Power factor: cos phi = 0.99
  b) Efficiency factor > 90%
- Output voltage ripple:
  0.3 % peak-to-peak from 24 V to 220 V
  1 mV for 24 V, 2 mV for 48 V – 60 V as per CCITT Standard
- Characteristic curve by IU according to DIN 41773
- Continuous short-circuit proofing
- Cooling: Self-cooling with temperature-controlled fan
- Protection class: Class 1
- Ambient conditions:
  a) Ambient temperature: -10 °C to +40 °C
  b) Relative humidity: 5% to 95%, noncondensing
  c) Degree of pollution 2
- Installation height: 1000 m above sea level
- Noise level: < 53 dB(A) at a distance of 1 m

Standards and specifications

- Security as per EN60950; VDE 0100 Part 410
  Accident prevention regulation BGV A2; EN 60146
- EMC according to EN 55022 limit value class B EN 61000-4 Parts 2-5

Standard features

° PCU – Process Control Unit
° Device monitoring U <> I>
° Mains fuse

Indication

° Output voltage and output current – digital display
° LED: green – device – on
° LED: red – fault
° LED: yellow – event

Additional features – Options

° Mains monitoring
° Automatic charging
° Manual transient charging with I characteristic curve
° Capacity test
° Deep discharge protection
° Consumer voltage monitoring U<>
° Battery symmetry monitoring with center tapping
° DC ground leakage protection
° DC ground leakage protection, plus / minus separated
° Si counter cells
° Consumer circuits
° Display of consumer current / voltage

Housing

Sheet-steel housing

Models:	Height:	1000 / 1400 / 1800 / 2000
	Width:	600 / 800
	Depth:	600 / 800
Protection type:	IP20	
Lacquer:	RAL 7035	
Cable entry:	Top/bottom	
Options:	Base:	100 mm / 200 mm

Combination housing with shielded battery compartment

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PME Vario

Modular structure with the PME power module

- ► Power adjustment in small stages (scalability)
- ► Cost-competitive n+1 redundancy solutions
- ► High efficiency factor using cutting-edge switching technology
- ► Very good energy efficiency
- ► Low volume and weight reduce the transport costs and make introduction at the installation site easier
- ► The modular design and "hot plug-in" ability guarantee short repair times and increase the system availability.

Different modular DC backup systems

The systems can be delivered as standard in accordance with the following general parameters:

- ► Mains frequency: 50 or 60 Hz
- ► Battery voltage: 24, 48, 60, 110, 220 V_{DC}
- ► Output power: 600 W to 13 kW

Type table PME-Vario

Type Table	Input voltage [V-AC]	Input current [A-AC]	Output voltage [V-DC]	Output current [A-DC]
PME 24 / 54	230 V	9 A	24 V	54 A
PME – vario 24 / 108	400/230 V	2x 9 A	24 V	108 A
PME – vario 24 / 162	400/230 V	3x 9 A	24 V	162 A
↓	↓	↓	↓	↓
PME – vario 24 / 324	400/230 V	18 A / Ph.	24 V	324 A
PME – vario 48 / 46	230 V	12 A	48 V	46 A
PME – vario 48 / 92	400/230 V	2x 12 A	48 V	92 A
PME – vario 48 / 138	400/230 V	3x 12 A	48 V	138 A
↓	↓	↓	↓	↓
PME – vario 48 / 276	400/230 V	24 A / Ph.	48 V	276 A
PME – vario 60 / 27	230 V	9 A	60 V	27 A
PME – vario 60 / 54	400/230 V	2x 9 A	60 V	54 A
PME – vario 60 / 81	400/230 V	3x 9 A	60 V	81 A
↓	↓	↓	↓	↓
PME – vario 60 / 162	400/230 V	18 A / Ph.	60 V	162 A
PME – vario 108 / 20	230 V	12 A	108 V	20 A
PME – vario 108 / 40	400/230 V	2x 12 A	108 V	40 A
PME – vario 108 / 60	400/230 V	3x 12 A	108 V	60 A
↓	↓	↓	↓	↓
PME – vario 108 / 120	400/230 V	24 A / Ph.	108 V	120 A
PME – vario 216 / 10	230 V	12 A	216 V	10 A
PME – vario 216 / 20	400/230 V	2x 12 A	216 V	20 A
PME – vario 216 / 30	400/230 V	3x 12 A	216 V	30 A
↓	↓	↓	↓	↓
PME – vario 216 / 60	400/230 V	24 A / Ph.	216 V	60 A

Higher power ratings available on request