

PowerMaster Series

Automatic Voltage Regulators – Stabilised Power Protection

2kVA – 500kVA

» Stability » Regulation » Industrial



The PowerMaster AVR protects voltage fluctuations from the incoming supply affecting your load and is designed to maintain constant set voltage at all times.

The output voltage can be monitored via the front panel analogue voltmeter and certain models are provided with high and low voltage LED indicator alarms.

The PowerMaster range includes single and three phase models and can be supplied with phase or phase & neutral and fan or oil filled cooling options.

Wide input voltage range models are available and the standard output voltage range of these may be altered upon request.

- » High efficiency, each model exceeds 95%
- » Electro-mechanical high-low voltage protection
- » Fast response time
- » Overload power protection
- » Short circuit protection
- » Sudden power interruption delay protection
- » Bypass switch options
- » Voltage meter and LED control panel
- » Isolation transformer reduces noise
- » Optional auto restart function

PowerMaster Technical Specification



Standard Specification				
Input Voltage Range	±15%			
Efficiency	›95%			
Voltage Regulation	Within input voltage range stable within +1% - 2%			
Output Voltage Adjustable Range	›±5%			
Frequency	60 Hz / 50 Hz ±5%			
Overload Capacity	When loaded 150% more than 10sec / When loaded 200% more than 2sec			
Operating Temperature / Humidity	Applicable temperature 0°C - 45°C / Applicable humidity 0 - 95%			
Power Factor	0.8 - 1			
Response Time	Speed to regulate voltage less than 0.1 sec			
Wave Distortion	‹1%			
Protection	<p>Single Phase: Provided with overload protection function. Optional accessories: over high voltage and bypass protection function</p> <p>Three Phase: Provided with overload, phase lagged, surge, bypass, delay switch etc. Protection and self-setting, over-high and over-low voltage protection. Phase unbalanced to 30% may amend balance within 2%.</p>			
Model	Power (kVA)	Phases/Voltages/Frequency	Dimensions (mm) WxDxH	Weight (kgs)
PowerMaster 100 Series – Single Phase Input & Output (without ISO. TX)				
102	2	1ph / 1ph – 230 V 50 Hz	205 x 370 x 215	17
103	3	1ph / 1ph – 230 V 50 Hz	205 x 370 x 215	19
105	5	1ph / 1ph – 230 V 50 Hz	266 x 440 x 215	25
110	10	1ph / 1ph – 230 V 50 Hz	300 x 510 x 480	48
115	15	1ph / 1ph – 230 V 50 Hz	300 x 510 x 480	55
120	20	1ph / 1ph – 230 V 50 Hz	300 x 510 x 480	68
130	30	1ph / 1ph – 230 V 50 Hz	300 x 510 x 480	83
PowerMaster 300 Series – Three Phase Input & Output (without ISO. TX)				
305	5	3ph / 3ph – 400 V 50 Hz	360 x 540 x 570	62
310	10	3ph / 3ph – 400 V 50 Hz	360 x 540 x 570	70
315	15	3ph / 3ph – 400 V 50 Hz	360 x 540 x 570	76
320	20	3ph / 3ph – 400 V 50 Hz	360 x 540 x 570	82
330	30	3ph / 3ph – 400 V 50 Hz	360 x 540 x 570	96
345	45	3ph / 3ph – 400 V 50 Hz	410 x 790 x 710	126
360	60	3ph / 3ph – 400 V 50 Hz	410 x 790 x 710	157
375	75	3ph / 3ph – 400 V 50 Hz	410 x 790 x 710	185
3100	100	3ph / 3ph – 400 V 50 Hz	530 x 1020 x 830	290
3120	120	3ph / 3ph – 400 V 50 Hz	530 x 1020 x 830	300
3150	150	3ph / 3ph – 400 V 50 Hz	520 x 970 x 1100	330
3200	200	3ph / 3ph – 400 V 50 Hz	600 x 1150 x 1320	520
3250	250	3ph / 3ph – 400 V 50 Hz	600 x 1200 x 1320	630
3300	300	3ph / 3ph – 400 V 50 Hz	1200 x 800 x 1400	890
3350	350	3ph / 3ph – 400 V 50 Hz	1200 x 800 x 1400	950
3400	400	3ph / 3ph – 400 V 50 Hz	1200 x 800 x 1400	990
3450	450	3ph / 3ph – 400 V 50 Hz	1200 x 800 x 1400	1030
3500	500	3ph / 3ph – 400 V 50 Hz	1200 x 800 x 1680	1330

Advanced Power Conversion Solutions

The BPC Group

BPC is an international company operating for 20 years globally, with partners and distributors located around the world.

These regions include:

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UK, France, Germany, Gibraltar, Ireland, Netherlands, Malta, Norway, Portugal.

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Bahrain, Jordan, Kuwait, KSA, Lebanon, Oman, Qatar, UAE, Yemen.

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Burkina Faso, Democratic Republic of the Congo, Egypt, Ethiopia, Kenya, Ghana, Libya, Nigeria, Rwanda, Sierra Leone, Sudan, Tanzania, Uganda, Zambia.

FAR EAST & ASIA

India, Pakistan, Sri Lanka.

To ensure a high level of pre and post-sales support is offered, BPC work closely with distributors, providing key commercial and technical training whilst providing competitive costing structures tailored to specific region markets, ensuring the most suitable BPC products are offered. We pride ourselves on long standing relationships with our partners which is reflected in the ongoing support provided locally.



The British Power Conversion Company

Authorised Distributor