

PRM Series

TECHNOLOGY: **TRUE ON LINE Double Conversion**

CLASSIFICATION: **VFI-SS-111 (EN 62040-3)**

POWER RANGE: **1 – 2 – 3 – 6 – 10 kVA** **PF_{out} = 0.9**

No. OF PHASES: **1:1**

SOFTWARE: **WinPower**



■ APPLICATIONS

- 19" rack cabinets
- Servers
- IT equipment
- Security and automation systems
- Workstations
- Small computer networks

■ Specification

Designed to work as standalone or in 19" rackmount system

True On-Line Double Conversion Technology (EN 62040-3) provides perfect output voltage parameters, regardless of the input voltage and the load.

Automatic Bypass (Static Switch) provides continuous load supply in critical conditions, such as overheating or inverter failure.

Frequency converter feature lets you set the output frequency to 50Hz or 60Hz.

Communication:

USB, RS-232, DryContact for UPS (Uninterruptible Power Supply) and load supervision and control.

Ethernet Interface for computer-network communication with SNMP protocol support

LCD Panel displays UPS and power parameters.

Software controlled output sockets – enable managing groups of load.

Small dimensions – power and battery modules have 2U (1 - 3kVA), it makes installation and operation easy and compact.

High efficiency reduces heat dissipation and decreases operating costs.

ECO-Mode gives possibility of significant cost reduction and in practice stops heat emission. Efficiency up to 99%.

Backup time extension possibility provides exact fitting for required autonomy time.

Automatic diagnostics ensure that components and parameters are controlled without user interference.

High input power factor reduces the value of current drawn from the mains.

High output power factor (PF=0.9) allows load of versatile characteristics to be connected.

Wide input voltage range for normal mode ensures that the batteries are used only if necessary - in fact, only when the input voltage is completely lost.

Wide input frequency range for normal mode gives possibility for seamless operation with different power sources - as mains or the generating set.

Easy operation - microprocessor control and fully automatic mode ensure maintenance-free work.

Automatic startup ensures maintenance-free operation even after the unit was switched-off after long time mains failure.

Advanced Battery Management gives reliability of optimal charging and using batteries, elongates its lifetime and reduces operation costs.

Battery startup feature enables unit startup without mains supply.

Excellent voltage quality is provided by IGBT inverter and high-frequency PWM modulation method; the output voltage has always stable parameters, independent of input disturbances and load characteristics.

High overload capacity indicates power reliability during transient conditions and high resistance on handling faults.

Advanced power management software provides full control of UPS. **User configurable settings** – nominal voltages, frequencies, preferred operating modes, ways of communication – widens the range of possible applications.

REPO – enables remote emergency power off, in case of emergency.

Hot Standby redundancy available for 6 and 10kVA models **Power Distribution Unit (PDU)** for 6 and 10kVA units, terminal board with IEC-320 sockets and integrated maintenance bypass.

PRM Series

Model	PRM 1K	PRM 2K	PRM 3K	PRM 6K	PRM 10K
Capacity [VA / W]	1000 / 900	2000 / 1800	3000 / 2700	6000 / 5400	10000 / 9000
Number of phases in:out	1:1				
Input					
Voltage	200 / 208 / 220 / 230 / 240 VAC				
Voltage Range	- 30% ÷ + 25% @ ≥70% load				
	- 48% ÷ + 25% @ <70% load				
Frequency	50/60 Hz				
Frequency range	-20% ÷ +20%				
Input power factor	≥ 0.99				
Output					
Voltage	208 / 220 / 230 / 240 VAC				
Voltage regulation Static/Dynamic	±1% / ±3%				
Frequency	50/60 ± 0,05 Hz				
Frequency conversion	Yes, 50Hz / 60Hz				
Overload capacity ⁽¹⁾	112% - continuous, 125% - 3min., 150% - 30sec.,			112% - continuous, 145% - 2min., 150% - 30sec.,	
Efficiency Online ⁽²⁾ /Eco mode	> 92% / 99%			> 95% / 99%	
Manageable output sockets	2 x 4 pcs			n/a	
Output sockets	IEC320-C13 x 8	IEC320-C13 x 8 IEC320-C19 x 1	IEC320-C13 x 4 IEC320-C19 x 2	IEC320-C19 x 8	
Terminal boards	n/a (Plug & Play)			Yes, with maintenance manual Bypass switch	
Crest factor	3:1				
Batteries					
Standard autonomy time ⁽³⁾ (min), internal batteries / +1 battery module	@ 100% load	6 / 35	6 / 30	4 / 16	7 / 18
	@ 75% load	10 / 47	11 / 42	7 / 25	11 / 27
	@ 50% load	20 / 80	18 / 65	11 / 41	19 / 45
	@ 25% load	50 / 150	42 / 140	28 / 80	42 / 82
Battery type	Maintenance free, sealed VRLA AGM				
Battery startup	Yes				
External battery connector	Yes ⁽⁴⁾				
Recharging time	4 hours up to 90% capacity				
Weight and dimensions					
Dimensions of UPS (W x D x H)	440 x 438 x 87 mm (2U)		440 x 608 x 87 mm (2U)	438 x 698 x 129 mm (3U)	438 x 704 x 215.5 mm (5U)
Dimensions of battery module (W x D x H)				438 x 606 x 129 mm (3U)	
Weight: UPS with internal batteries	16.2 kg	19.7 kg	28.6 kg	46 kg	82.5 kg
Weight: Battery module	20.2 kg	27.5 kg	33.3 kg	42 kg	63 kg
Communications					
Operation mode indicators	LCD display, sound alarm				
Communication	RS-232, DryContact in/out ⁽⁵⁾ , USB, SNMP slot, REPO				
Environmental					
Noise level ⁽⁶⁾	<43 db (A)	<46 db (A)		<50 db (A)	
Operating temperature for UPS	0 °C ÷ 40 °C				
Recommended. operating temperature for UPS and batteries	15 °C ÷ 25 °C				
Storage temperature	- 25 °C ÷ 55 °C				
Humidity	0 ÷ 95 % (non condensing)				
Certifications					
Standards	CE, EN62040-2:2006 (EMC), EN62040-1:2008 (LVD)				
Options					
- SNMP Web Card			- 19" Rack-mount kit		
- External battery cabinets			- Remote status panel		
- Monitoring and shutdown software, WinPower			- Environmental sensor (EMD)		
- AS 400 Card			- REPO		

⁽¹⁾ for cosφ=0.8 ⁽²⁾ for cosφ=0.9 and 100% load ⁽³⁾ autonomy times for pf=0.7 ± 10% can vary depending on battery type, operating temp etc. ⁽⁴⁾ up to 4 battery modules ⁽⁵⁾ for PRM 1-3kVA ⁽⁶⁾ max value, noise level can be lower due to automatic fan regulation.

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