

PRM

TECHNOLOGY: **TRUE ON LINE Double Conversion**

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

POWER RANGE: **6 kVA P_{Fout} = 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, Dry Contact for UPS (Uninterruptible Power Supply) and load supervision and control.

Ethernet Interface for computer-network communication with SNMP protocol support

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.

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.

Automatic start up 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 start up feature enables unit start up 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.

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

PRM

Model	PRM 6K
Capacity [VA / W]	6000 / 5400
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, 145% - 2min., 150% - 30sec.,
Efficiency Online ⁽²⁾ /Eco mode	> 95% / 99%
Output sockets	IEC320-C13 x 4 IEC320-C19 x 2
Terminal boards	Yes, with maintenance manual Bypass switch
Crest factor	3:1
Batteries	
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)	438 x 698 x 129 mm (3U)
Weight: UPS with internal batteries	46 kg
Communications	
Operation mode indicators	LCD display, sound alarm
Communication	RS-232, Dry Contact in/out ⁽⁵⁾ , USB, SNMP slot, REPO
Environmental	
Noise level ⁽⁶⁾	<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
- Monitoring and shutdown software, WinPower	- Remote status panel
- AS 400 Card	- Environmental sensor (EMD)
	- 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.

In the publication are given standard parameters of our models. Due to continuous product improvement, we reserve the right to change parameters without prior notice.

