

# PM990 G5

30 kVA (3:3)

PF 1.0



## FEATURES

- Advanced dual-core DSP control technology, true Online UPS with DSP - based inverter monitoring, and an IGBT charger & rectifier.
- Output power factor 1.0, load capacity improved 11% more than traditional products, Load regulation  $\pm 2\%$
- Active Power Factor Correction Technology, input power factor up to 0.99
- System efficiency improved to 96%, energy saving rate is doubled
- Continuous duty cycle and Working efficiency up to 99% in ECO mode
- Dual input design, supporting independent bypass
- Advanced digital and parallel technology, providing higher reliability than single system
- Wide input voltage range, 50 / 60 Hz auto-sensing frequency
- 50 Hz / 60 Hz frequency conversion mode
- Inverter efficiency greater than 92%
- Auto Phase Sequence Correction
- Forced air cooling and fan speed varies intelligently with temperature, reducing noise and extending its service life
- Features strong fault tolerance, one fan damaged takes 50% of the load, two fans damaged take 30% of the load
- Conformal coating technology to make UPS operate in harsh environment for a long time
- Effective hardware and software protection, robust self-diagnosis function, abundant event log for future check
- Linear downgrading in low voltage input reducing battery discharging times
- Optional Isolation transformer internal/External.
- Ability to switch on the UPS by battery in the absence of mains power (Cold start)
- Zero switching time for UPS power supply mode when the mains power is unstable, ensuring the output is uninterrupted
- Compatible with diesel generator
- 5 inches LCD colorful touch screen, friendly human & machine interface
- Powerful background software for parameters configuration and on-line upgrade
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life
- Options and accessories: supplied RS232, USB, RS485, CAN, NET, parallel, LBS, dry contacts, EPO and battery temperature compensation interface; optional SNMP card, Wi-Fi card, GPRS card, battery temperature sensor, EMD detector and SMS alarms
- Name plate in the UPS as Printed Name and Sr. No.
- Linear derating in low voltage input, reducing battery discharging times, extending the service life of battery
- Advanced battery management (ABM), automatic floating / equalizing charge control, charger dormancy control
- ISO 9001:2015 and ISO14001:2015, EN/IEC 62040-1, EN/IEC 62040-2, EN/IEC 62040-3 Test report Certificate from SAMEER / ETDC/ NTH / ERTL / NABL's or any other Government authorized Testing Lab
- Metering display showing AC O/P Voltage, O/P current, I/P Voltage, I/P Current, Battery Voltage, Battery Current
- Standard emergency power off (EPO)
- Standard static bypass and maintenance bypass switch.
- Software for automatic shut down of the system, monitoring the various health parameters of UPS.
- Rack for Batteries with Operating and user manual
- Trip Conditions: Over load, over/under voltage, low battery
- Indications: Mains ON, Inverter ON, battery Low, Overload
- Configurable switching time from battery mode to mains mode when mains power is restored, reducing the impact on power grid or generator
- Alarms (Audio) available.
- Effective software and hardware protection function, powerful self-diagnostic function, abundant historical records
- Backup time;- 30 Minutes/ 60 Minutes/120 Minutes

MODEL		CH 3330 K
Capacity	30 kVA / 30 kW	
<b>INPUT</b>		
Input wiring	Three-phase five-wire (3Φ + N + PE)	
Rated voltage	380 / 400 / 415 Vac	
Voltage range	304 ~ 485 Vac 138 ~ 304 @40% ~ 100% load	
Frequency range	40 ~ 70 Hz	
Power factor	≥ 0.99	
THDi	≤ 3% at full load	
Bypass voltage range	-20% ~ +15% (settable)	
Battery voltage	±240 Vdc (±180 ~ ± 240 Vdc settable)	
Number of battery	40 pcs 12 V batteries (30 ~ 40 pcs settable)	
<b>OUTPUT</b>		
Output wiring	Three-phase five-wire (3Φ + N + PE)	
Rated voltage	380 / 400 / 415 Vac	
Voltage regulation	±1%/±2 (Balance/Unbalance load)	
Frequency	Synchronized with utility in mains mode, 50Hz +/- 2Hz	
Waveform	Pure Sine Wave	
Load Power factor	1.0	
Total harmonic distortion (THDV)	<1% (full linear load) <3% (full non-linear load according to IEC/EN62040-3)	
Crest factor	3:1	
Overload capability	105% ~110% for 60 min, 110% ~ 125% for 10 min, 125% ~ 150% for 1 min, > 150% for 0.2 s	
<b>BATTERIES</b>		
DC voltage	± 240 Vdc (± 180 ~ ± 240 Vdc Settable)	
Number of batteries	40 pcs (30 - 40 pcs settable)	
Charging current	10 A Max	
Recharge time	Upto 8-12 Hrs	
<b>SYSTEM</b>		
Max. efficiency	Max 95%	
Transfer time	0 ms	
Max. number of parallel connections	4	
Protection	Short-circuit – overload – over temperature –excessive low battery – overvoltage / undervoltage - fans failure, Transient & surge, Battery fuse, Input, output - Low and High.	
Communications	Standard configuration: RS232, USB, RS485, EPO, dry contacts, Parallel Port; Optional configuration: SNMP card, Wi-Fi card, GPRS card, SMS alarms	
Display	LCD + 5 inches colorful LCD touch screen	
<b>OTHERS</b>		
Operating environment	0°C ~ 40°C	
Storage temperature	-40°C ~ 70°C (without batteries)	
Relative humidity	0 ~ 95% (non-condensing)	
Altitude	1000m, load derated 1% per 100m from 1000 ~ 2000m	
IP rating	IP 20	
Noise	58dB @ 100% load, 55dB @ 50% load	
Dimensions (W × D × H) (mm)	250 × 840 × 650	
Packaged dimensions (W × D × H) (mm)	35 × 980 × 810	
Net weight (kg)	42	
Gross weight (kg)	52	

- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.
- Derate capacity to 90% when the number of batteries is set to 30 pcs.

**PROSTARM INFO SYSTEMS LTD**

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