PROSTARM
Power Redefined

PM990 G4

40 kVA ~ 120 kVA
(3:3)
PF 1.0



FEATURES

- Advanced dual-core DSP control technology, rectification and inversion are controlled by dual DSP
- Output power factor 1.0, load capacity improved 11% more than traditional products
- Active Power Factor Correction Technology, input power factor up to 0.99
- System efficiency improved to 96%, energy saving rate is doubled
- 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
- Compact internal layout, small footprint
- 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
- Flexible battery configuration setting, selectable battery numbers: 30 ~ 46 pcs
- 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
- Settable delayed start time when mains power is restored
- 5 inches LCD colorful touch screen, friendly human & machine interface
- Powerful background software for parameters configuration and online upgrade
- Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, CAN, NET, dry contacts, SNMP card, Wi-Fi card and GPRS card
- 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
- Doubling the battery charging speed, 90% capacity restored in 4 hours (standard model UPS)
- 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
- Configurable switching time from battery mode to mains mode when mains power is restored, reducing the impact on power grid or generator
- Effective software and hardware protection function, powerful self-diagnostic function, abundant historical records
- Standard emergency power off (EPO)
- Standard maintenance bypass
- Standard RS232/USB communication port
- Optional RS485 / SNMP / AS400 communication port and SMS alarms
- Optional N+X redundancy parallel up to 6 units
- Optional battery temperature compensation, EMD environmental sensors

MODEL	CH 3340 K	CH 3360 K	CH 3380 K	CH 33120 K
Capacity	40 kVA / 40 kW	60 kVA / 60 kW	80 kVA / 80 kW	120 kVA / 120 kW
INPUT				
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%			
Bypass voltage range	-60% ~ +20% (settable)			
Battery voltage	±192 Vdc (±180 ~ ± 276 Vdc settable)			
Number of battery	32 pcs 12 V batteries (30 ~ 46 pcs settable)			
OUTPUT				
Output wiring	Three-phase five-wire (3Φ + N + PE)			
Rated voltage	380 / 400 / 415 Vac			
Voltage regulation	±1%			
Frequency	Synchronized with utility in mains mode, 50 / 60 Hz ± 0.1% in battery mode			
Waveform	Sine Wave			
Power factor	1.0			
Total harmonic distortion (THDV)	≤ 1% (linear load); ≤ 5% (non-linear load)			
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			
BATTERIES				
DC voltage	± 192 Vdc (± 180 ~ ± 276 Vdc Settable)			
Number of batteries	32 pcs (30 - 46 pcs settable)			
Charging current	12 A	24 A		36 A
Recharge time	Upto 8-12 Hrs			
SYSTEM				
Max. efficiency	Max 96% in online mode, 99% in ECO mode			
Transfer time	0 ms			
Max. number of parallel connections	4			
Protection	Short-circuit – overload – overtemperature –excessive low battery – overvoltage / undervoltage - fans failure			
Communications	Standard configuration: RS232, USB, RS485, NET, dry contacts; Optional configuration: SNMP card, Wi-Fi card, GPRS card			
Display	5 inches colorful LCD touch screen			
OTHERS				
Operating environment	0°C ~ 45°C			
Storage temperature	-25°C ~ 55°C (without batteries)			
Relative humidity	0 ~ 95% (non-condensing)			
Altitude	≤ 1000 m; above 1000 m, downgrading 1% for each additional 100 m			
IP rating	IP 21			
Noise	≤ 65 dB			
Dimensions (W × D × H) (mm)	360 × 850 × 950		360 × 850 × 1200	440 × 850 × 1200
Packaged dimensions (W × D × H) (mm)	460 × 950 × 1113		460 × 950 × 1363	540 × 950 × 1363
Net weight (kg)	93	125	157	192
Gross weight (kg)	106	138	170	207

- 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
Corporate Office: Meridian Business Centre, 11th Floor,
Plot No. 27, Sector 30A, Sanpada Vashi Road, Navi Mumbai – 400 703.
E-Mail: sales@prostarm.com

PROSTARM
Power Redefined
www.prostarm.com