

# PM900 G4

5 kVA ~ 10 kVA  
1.0



## FEATURES

- Advanced DSP and 3-level technology
- Output power factor 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 94% (up to 98% in ECO mode)
- Advanced digital parallel technology
- 3:1 to 1:1 model settable, Continuous duty cycle
- Wide input voltage range (110 ~ 280 Vac) and frequency range (40 ~ 70 Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger, Forced Air Cooling available.
- High charging current available (Max. 10 A )
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- Manual and Static bypass switch available
- Trip conditions for Overload, Over and under voltage and Short circuit available.

- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check
- Indication on Mains On, battery Low, inverter On, Overload.

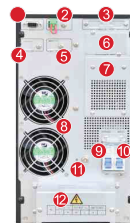
## AVAILABLE OPTIONS

- RS232 and smart card slot included
- MCB/Power sockets are available
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms & Audio Alarms.

## REAR PANEL

1. RS232
2. EPO
3. Parallel Port (optional)
4. USB (optional)
5. Temperature Detection (optional)
6. Intelligent Slot
7. Reserved for manual bypass or battery breaker or outlets etc.

8. Fans
9. Bypass Breaker
10. Input Breaker
11. GND
12. Terminals and Cover



6/10 kVA (H)



6/10 kVA (S)

MODEL	CH5KS	CH6KS	CH10KS
Capacity	5 kVA / 5 kW	6 kVA / 6 kW	10 kVA / 10 kW
<b>INPUT</b>			
Input wiring	Single-phase three-wire (1 $\Phi$ + N + PE)		
Rated voltage	208 / 220 / 230 / 240 Vac		
Voltage range	110V to 280 Volt @ < 50% Load, 150 V to 280 Volt @ 100% Load		
Rated frequency	50 / 60 Hz (auto-sensing)		
Frequency range	40 ~ 70 Hz		
Power factor	$\geq 0.99$		
Bypass voltage range	- 40% ~ +15% (settable)		
Total harmonic distortion (THDi)	$\leq 5\%$		
<b>OUTPUT</b>			
Output wiring	Single-phase three-wire (1 $\Phi$ + N + PE)		
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac		
Voltage regulation	$\pm 1\%$		
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz $\pm 0.1\%$ Hz in battery mode		
Waveform	Sine Wave		
Power factor	1		
Total harmonic distortion (THDv)	$\leq 1\%$ (linear load); $\leq 4\%$ (non-linear load)		
Crest factor	3:1		
Overload	102% ~ 110% for 10 min, 110% ~ 125% for 1 min, 125% ~ 150% for 30 s		
<b>BATTERIES</b>			
DC voltage	192 Vdc (192 ~ 240 Vdc settable)		
Number of battery	16 pcs (16 ~ 20 settable)		
Inbuilt battery (standard model)	12 V / 7 Ah $\times$ 16	12 V / 9 Ah $\times$ 16	
Charging current	Standard model: 1 A; Long time model: 5 A (default), 1 ~ 5 A settable; 12 A (optional)		
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery		
<b>SYSTEM</b>			
Efficiency	$\geq 94\%$ at 100% load, max. 95% at 60% load, $\geq 98\%$ in ECO mode		
Transfer time	0 ms		
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure		
Max. number of parallel connections	4		
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)		
Display	LCD + LED		
<b>OTHERS</b>			
Operating temperature	0°C ~ 55°C		
Storage temperature	-25°C ~ 55°C (without battery)		
Relative humidity	0 ~ 95% (non-condensing)		
Altitude	$\leq 1000$ m, derating 1% for each additional 100 m		
IP rating	IP 21		
Noise level at 1 m	$\leq 45$ dB	$\leq 50$ dB	
Dimensions (W $\times$ D $\times$ H) (mm)	191 $\times$ 465 $\times$ 711 (S), 191 $\times$ 465 $\times$ 350 (H)	191 $\times$ 495 $\times$ 711 (S), 191 $\times$ 495 $\times$ 350 (H)	
Packaged dimensions (W $\times$ D $\times$ H) (mm)	310 $\times$ 654 $\times$ 941 (S), 318 $\times$ 595 $\times$ 475 (H)	310 $\times$ 685 $\times$ 941 (S), 318 $\times$ 617 $\times$ 475 (H)	
Net weight (kg)	53 (S), 14.5 (H)	62 (S), 16.5 (H)	
Gross weight (kg)	61 (S), 16 (H)	70 (S), 18 (H)	

- S means standard model; H means long time model.
- All specifications are subject to change without notice.

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