

# PRO PLUS

6 kVA ~ 10 kVA

PF 1.0 / 0.9



## Features

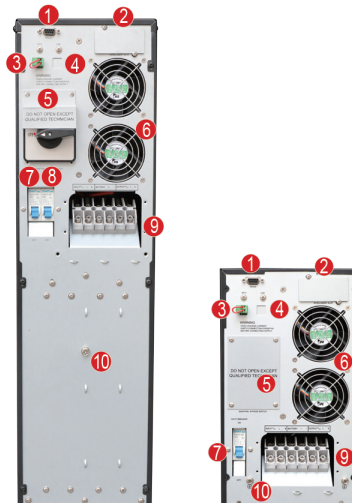
- Advanced DSP technology
- Output power factor 1.0 / 0.9
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95.5% (up to 98.5% in ECO mode)
- Wide input voltage range (110 ~ 300 Vac)
- 50 / 60 Hz frequency auto sensing
- Flexible battery configuration (settable 16 / 18 / 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 12 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%
- 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
- 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

## Available Options

- RS232 and smart card slot included
- Optional SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

## Rear Panel

1. RS232
2. Intelligent Slot
3. EPO
4. USB
5. Maintenance Bypass Breaker
6. Fans
7. Input Breaker
8. Battery Breaker
9. Terminals
10. GND



## Specifications

MODEL	PRO * 6	PRO * 10
Capacity	6 kVA	10 kVA
<b>INPUT</b>		
Input wiring	L+ N + PE	
Rated voltage	208 / 220 / 230 / 240 Vac	
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 276 Vac (no derating); 276 ~ 300 Vac (derating 50%)	
Frequency range	50/60 Hz $\pm$ 6 Hz(default), $\pm$ 10 Hz(settable)	
Power factor	$\geq$ 0.99	
Total harmonic distortion (THDi)	$\leq$ 5%(linear load) $\leq$ 8%(non-linear load)	
<b>OUTPUT</b>		
Output wiring	L+ N + PE	
Rated voltage	208 / 220 / 230 / 240 Vac	
Voltage regulation	$\pm$ 1%	
Frequency	Synchronized to mains in online mode; 50 / 60 Hz $\pm$ 0.1% Hz in battery mode	
Power factor	1*	
Total harmonic distortion (THDv)	$\leq$ 2% (linear load); $\leq$ 5% (non-linear load)	
Transfer time	0ms	
Overload	105% ~ 125% for 10 min, 125% ~ 150% for 30 s, >150% for 0.5 s	
<b>BATTERIES</b>		
Number of battery	16 / 18 / 20 pcs	
Charging current	1 ~ 12 A (settable)**	
Backup time	Depends on user requirements and configuration	
<b>SYSTEM</b>		
Efficiency	Mains mode: top efficiency 95.5%, full load efficiency 95% Battery mode: top efficiency 95.3%, full load efficiency 94.8%(20 pcs) ECO mode: top efficiency 98.5%***	
Communications	RS232 (standard), SNMP / USB / RS485 / dry contacts(optional)	
Display	LCD, operation mode, overload, electric quantity, input, output	
<b>OTHERS</b>		
Operating temperature	0°C ~ 40°C	
Storage temperature	-25°C ~ 60°C (battery: 0°C ~ 40°C)	
Relative humidity	20 ~ 95% (non-condensing)	
Altitude	$\leq$ 1000 m, derating above 1000 m, maximum 4000 m, refer to IEC62040	
Noise level at 1 m	< 50db	
Dimensions (W x D x H) (mm)	191 x 462 x 710 (S), 191 x 395 x 350 (H)	191 x 462 x 710 (S), 191 x 395 x 350 (H)
Packaged dimensions (W x D x H) (mm)	308 x 640 x 896 (S), 262 x 484 x 425 (H)	308 x 640 x 896 (S), 262 x 484 x 425 (H)
Net weight (kg)	51.7kg (S), 10.6 kg (H)	60.3 kg (S), 11.5 kg (H)
Gross weight (kg)	57.6 kg (S), 12.5 kg (H)	66.2 kg (S), 13.4 kg (H)

- \*Power factor 0.9 and 1.0 for option.
- \*\*Charging current (1-8A) is settable for model with output power factor of 0.9.
- \*\*\*Model with output power factor of 0.9 has no ECO function.
- S means standard model; H means long time model.
- All specifications are subject to change without notice.

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