

# Aegis Pro

10KVA ~ 30KVA  
PF 0.9 (3 : 3)



## Applications

IDC – Internet Data Center  
IPC – Industrial process control  
ISP – Internet Service Provider  
Financial transaction / Clearing center  
Precision instruments, Automation system

## Highlights

- ✓ Compact
- ✓ Dual input
- ✓ High reliability & availability
- ✓ Flexible battery configuration
- ✓ Advanced fast charging technology
- ✓ N+X redundancy parallel
- ✓ Multiple communication ports
- ✓ Powerful background software

*Aegis Pro series UPS is three phase on-line double-conversion UPS designed in small footprints with input power factor correction (Input PF≥0.99) and an enhanced output power factor to 0.9. It's the ideal solution for critical information and telecommunication systems, network services. Aegis series UPS includes dual-mains input, automatic and maintenance bypass which make the system more reliable and easy to maintenance, moreover scalable runtime with flexible built-in/external batteries for increased availability.*

## Features

### High reliability

- Advanced DSP digital control technology is applied to rectifier and inverter
- Fan speed varies intelligently with temperature, reducing noise and increasing its service life
- Rear ventilation design, fan operating in slow speed, UPS being able to work for a long time in harsh environment
- Effective software and hardware protection function, powerful self-diagnostic function and abundant historical log
- Advanced digital parallel redundant configuration for power system not only greatly improve system reliability, reduce MTTR, but also allows users to multiply capacity and uptime for future expansion by adding additional UPS systems

### High availability

- Wide input voltage range, self-adaptive 50Hz /60 Hz grid system, suitable for various grid environments
- Linear derating in low voltage input, reducing battery discharging time, extending the service life of battery
- Dual input design, independent bypass available
- Output power factor improved from 0.8 to 0.9, load-carrying capacity increased by 13%
- Flexible and optimized battery number design with different DC voltage for more economical battery usage and costs (168/192/216/240Vdc optional), and two UPS models (Standard model or Extensible model) for options
- Doubling the battery charging speed, 90% capacity restored in 4 hours for standard model UPS, and higher charging current available for extensible model
- Cold start: Ability to switch on the UPS with batteries in the absence of mains power
- UPS power supply mode has no transfer time to ensure uninterruptible power
- Configurable switching time from battery mode to mains mode when mains power is restored, reducing the impact on power grid or generator
- Frequency conversion mode: 50Hz input / 60Hz output or 60Hz input / 50Hz output

### High usability

- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration, online updating
- Compact internal layout, miniaturized the complete unit for small footprint
- Standard Emergency Power Off (EPO), standard maintenance bypass

### High intelligence

- Advanced multi-platform communications: standard RS232 & USB, optional RS485, SNMP and dry contacts communication interfaces are used for monitoring UPS running status. Among them, SNMP is for remote network monitoring and management, by which can configure regular battery self test
- Advanced battery management (ABM), automatic floating / equalizing charge control, charger dormancy control, improving the reliability of charger and extending battery service life by 50%

### Energy conservation and environment protection

- Active power factor correction (APFC), input power factor up to 0.99
- Work efficiency up to 98% in ECO mode
- Auto power ON/OFF according to the load capacity set by users

## Available Options

### Communication Ports

RS485 / AS400 / SNMP and SMS alarm

### Software

UPSmart / iStars

### Others

Parallel card

Battery temperature compensation

EMD environmental sensors

## Details

1. Mains Input
2. DC Input
3. Bypass Input
4. Output
5. Mains Input Breaker
6. Bypass Input Breaker
7. Maintenance Bypass
8. Fan
9. RS232
10. USB
11. EPO
12. Battery Temperature Compensation (Optional)
13. Intelligent Slot 1 (SNMP / AS400 / RS485 Optional)
14. Intelligent Slot 2 (SNMP / AS400 / RS485 Optional)
15. Parallel Card (optional)
16. Battery Breaker



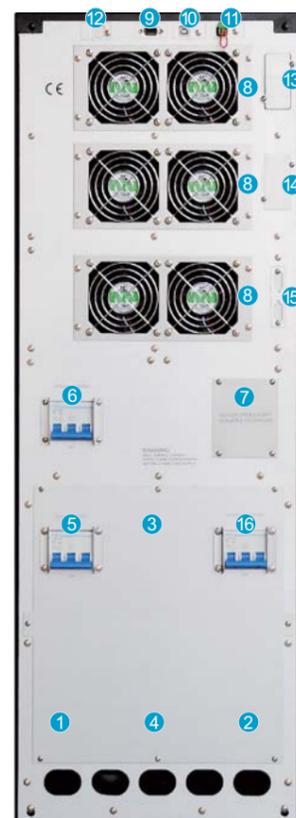
10 K (Ex)



15 ~ 30 K (Ex)



10 K (St)



15 ~ 30 K (St)

## Technical specifications

MODEL	AGSP 10	AGSP 15	AGSP 20	AGSP 30
<b>Capacity</b>	<b>10 KVA / 9 KW</b>	<b>15 KVA / 13.5 KW</b>	<b>20 KVA / 18 KW</b>	<b>30 KVA / 27 KW</b>
<b>INPUT</b>				
Rated voltage	360 / 380 / 400 / 415 Vac			
Voltage range	277 ~ 485 Vac (no derating); 190 ~ 277 Vac (linear derating between 50% and 100% load)			
Rated frequency	50 / 60 Hz (auto-sense)			
Frequency range	40 ~ 70 Hz			
Power factor	≥ 0.99			
Total harmonic distortion (THDI)	≤ 5%			
Bypass voltage range	-40% ~ +15% (settable)			
<b>OUTPUT</b>				
Voltage	360 / 380 / 400 / 415 Vac (settable)			
Voltage regulation	± 1%			
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz ±0.1 Hz (battery mode)			
Waveform	Sinusoidal			
Crest factor	3:1			
Total harmonic distortion (THDV)	≤ 2% with linear load; ≤ 5% with non-linear load			
Transfer time	Mains mode to battery mode: 0 ms; Inverter mode to bypass mode: 0 ms			
Inverter overload capability	102% ~ 125%: transfer to bypass in 10 mins; 125% ~ 150%: transfer to bypass in 1 min; > 150%: transfer to bypass in 0.5 s			
Bypass overload capability	102% ~ 125%: shut down in 20 mins; 125% ~ 150%: shut down in 2 mins; > 150%: shut down in 1 s			
<b>BATTERIES</b>				
DC voltage	Standard model: 240 VDC; Extensible model: 192 VDC (168V / 192V / 216V / 240V optional)			
Inbuilt battery of standard model	12 V / 7.0 Ah × 20	12 V / 7.0 Ah × 40	12 V / 9.0 Ah × 40	12 V / 9.0 Ah × 60
Recharge time	Standard model: 4 h to 90% capacity; Extensible model: depend on the capacity of battery			
<b>SYSTEM</b>				
Efficiency	≥ 93%, ≥ 98% in ECO mode			
Display	LCD+LED			
Protections	Overload, surge, Short circuit, battery low voltage, battery overcharge, over-temperature			
Alarm	Battery mode, low battery, fans fault etc.			
Max. parallel numbers	6			
EMI	IEC/EN62040-2			
EMS	IEC61000-4-2 (ESD) ; IEC61000-4-3 (RS) ; IEC61000-4-4 (EFT) ; IEC61000-4-5 (surge)			
<b>COMMUNICATIONS</b>				
RS232 / RS485 / USB / dry contacts	Supports Windows® 98 / 2000 / 2003 / XP / Vista / 2008 / 7 / 8 / 10			
SNMP	Power management from SNMP manager and web browser			
<b>OTHERS</b>				
Humidity	20 ~ 90% RH @ 0-40°C (non-condensing)			
Noise level	≤ 60 dB (1m)	≤ 65 dB (1m)		
Dimensions (W ×D ×H) (mm)	350 ×655 ×732 (Ex)			
	350 ×785 ×858 (St)	350 ×785 ×1078 (St)		
Packaged dimensions (W ×D ×H) (mm)	472 ×780 ×920 (Ex)			
	472 ×910 ×1050 (St)	472 ×910 ×1260 (St)		
Net weight (kg)	55 (Ex), 115 (St)	60 (Ex), 155 (St)	61 (Ex), 175 (St)	65 (Ex), 235 (St)
Gross weight (kg)	65 (Ex), 125 (St)	70 (Ex), 170 (St)	71 (Ex), 190 (St)	75 (Ex), 250 (St)

\* Derate capacity to 90% when the output voltage is adjusted to 360 Vac.

\* St means standard model, Ex means extensible model.

\* All specifications subject to change without notice.