

Alpha

6KVA

PF 1.0 (1:1)



Features

- Advanced DSP and 3-level, true online double conversion technology. Output power factor 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- Wide input voltage range (176 ~ 288 Vac) and frequency range (40 ~ 70 Hz), 50Hz (46 ~ 54Hz)
- 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
- 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
- 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

Available Options

- RS232 and intelligent card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

Details

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



6kVA

Technical specifications

MODEL	ALP6000M1
Capacity	6 kVA / 6 kW
INPUT	
Input wiring	Single-phase three-wire (1Φ + N + PE)
Rated voltage	220 / 230 / 240 Vac (Selectable)
Voltage range	± 20% 176 ~ 288 Vac (no derating)
Rated frequency	50 / 60 Hz (auto-sensing). 50Hz (46 - 54Hz)
Frequency range	40 ~ 70 Hz
Power factor	≥ 0.99
Bypass voltage range	- 40% ~ +15% (settable)
Total harmonic distortion (THDi)	≤ 5%
Generator Compatibility	yes
OUTPUT	
Output wiring	Single-phase three-wire (1Φ + N + PE)
Rated voltage	220 / 230 / 240 Vac (Auto-sensing or selectable)
Voltage regulation	± 1%
Frequency	50Hz±1%. 50 / 60 Hz±0.1% Hz in battery mode
Waveform	Pure sine wave
Power factor	1.0(6kVA/6kW)
Outlet	Terminal Block
Total harmonic distortion (THDv)	≤ 1%
Crest factor	3:1
Overload	102% ~ 110% for 10 min, 110% ~ 125% for 1 min, 125% ~ 150% for 30 s
BATTERIES	
DC voltage	192 Vdc
Number of battery	16pcs 12V/18Ah
Battery type	Sealed lead acid maintenance free battery, battery life: 5 years
Charging current	5 A (default)
Backup time	20 ~ 21 mins (full load at 4.8kW)
SYSTEM	
Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode
Transfer time	0 ms
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure
N + X parallel connections	Max 4 UPS (Optional)
Communications	RS232: UPS Monitoring & system shutdown software included SNMP card: Power management software in distance via web browser EPO: Emergency Power Off
Display	LCD + LED Display operation mode / Load / Battery capacity / Bypass / Fault
Alarm	By sounds and flash light
OTHERS	
Operating temperature	0°C ~ 40°C
Storage temperature	-25°C ~ 55°C (without battery)
Relative humidity	0 ~ 95% (non-condensing)
Altitude	≤ 1000 m, derating 1% for each additional 100 m
IP rating	IP 20
Noise level at 1 m	≤ 55 dB
Dimensions (W × D × H) (mm)	191 × 465 × 350
Packaged dimensions (W × D × H) (mm)	318 × 595 × 475
Net weight (kg)	14.5
Gross weight (kg)	16

• All specifications are subject to change without notice.