



ALPHA Series 1 - 3kVA Online UPS System

Charging Made Easy With POWERLOGIX™

**Reliable and Efficient
Single Phase UPS Solutions**



Alpha

1 Phase UPS

Customers are more concerned about power issues such as power failure, power sag, power surge, under voltage or over voltage, frequency variation, harmonic distortion and line noise. Powerlogix emphasizes the areas of redundant power supply, voltage regulation, equipment protection and adjustment and has designed and developed the UPS product family of Alpha Series.

Alpha Series UPS provides maximum protection and power quality for entry level servers, workstations, communication equipment's, ATMs etc...



FEATURES:

- True Online, Double Conversion, PWM Technology
- Fully Digitized Microprocessor Control, High Frequency
- LCD Display and Wide Input Voltage Range
- High Input Power Factor > 0.98
- Pure Sine Wave Output
- Static Bypass and Cold Start
- IGBT Based - Inverter & Rectifier
- Isolation Transformer Compatible
- Advanced Battery Management
- Automatic Battery Charge in UPS Off Mode
- EMI / RFI and Noise Filter
- Generator and Solar Compatible
- High Reliability Digital Control
- Auto-start Function



INTERNAL ISOLATION TRANSFORMER



Isolation transformer is a standard option in all Alpha series models. This considerably reduces the footprint and requirement of additional cabling and switchgear. Isolation transformer provides maximum protection to the connected loads.

Display panel

The display interface provides real-time status of critical diagnostics and essential parameters like load demands, input voltage, battery status, etc.



40°C operation

Alpha UPS withstand high operating temperatures. They can operate at 40°C at 100% capacity and up to 45°C at 80% capacity.



Flexible battery configuration

Battery blocks and their capacity can be configured by the user, as per the required variable backup time, based on the load connected.



Additional charger

The additional charger is a standard add-on option in Alpha UPS. It reduces the extra space/cabinet requirement. The additional charger is controlled by the UPS inverter controller and thus provides adequate protection from over voltage.



Conformal coating

Alpha UPS PC Boards comes as a standard with conformal coating. Conformal coating provides protection to the electronic circuits from harsh environments that may contain moisture and or chemical contaminants.



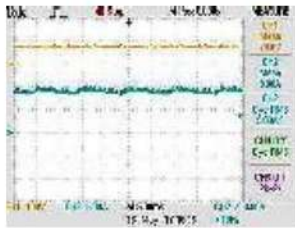
Polarity protection for battery connection

Polarity protection ensures that the battery connections are managed and installation is made easy.



Charger Ripple

The Alpha series is provided with adequate capacitor for minimum DC ripple < 5% of the battery carry, with this limit the battery life will be considerably increased



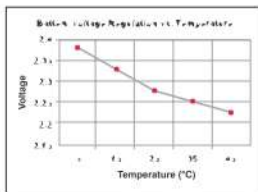
Over-voltage cut-off device

Over-voltage cut-off device protects the UPS from high input voltage and increases the stability and performance of UPS.



Temperature compensated battery charging

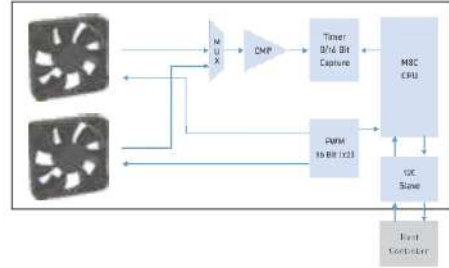
Alpha UPS automatically optimize the charging current, according to the operating temperature of the batteries. This feature extends the battery life considerably.



Temp. Compensated Charge Voltage
Fixed Charge Voltage

Intelligent fan operation

Intelligent fan operation manages and regulates fan speed, depending on the UPS requirements. It decreases power consumption and fan noise.



Advanced communication

The SNMP option in Alpha provides comprehensive UPS management and flexible configuration via web browser, NMS, Java Applet, Telnet, SNMP or Hyper Terminal. This technology provides reliable automatic event notification via E-mail, SMS*, WAP* and SNMP Trap. The View Power software provides automatic shutdown for multiple PCs over the network.



Upgradable charger

The charger can be upgraded to extend the backup for over four hours.

Output voltage selection

Alpha UPS offer option to choose the output voltage (208V* / 220V / 230V / 240V).

* with output de-rating

Technical Specifications:

| MODEL | AF 1000 IB | AF 1000 EB | AF 2000 IB | AF 2000 EB | AF 3000 IB | AF 3000 EB |
|-----------------------------|---|------------|----------------|---------------|----------------|---------------|
| Rated Capacity | 1000VA / 800W | | 2000VA / 1600W | | 3000VA / 2400W | |
| INPUT | | | | | | |
| Nominal Voltage | 220V / 230V / 240 V AC(1Ph + N + PE, 3wire) | | | | | |
| Operating Voltage Range | 115V - 295V AC Load Dependent | | | | | |
| Operating Frequency Range | 50/60 Hz \pm 10% (Auto Sensing) | | | | | |
| Power Factor | \geq 0.98 | | | | | |
| OUTPUT | | | | | | |
| Output Voltage/Power Factor | 208V / 220V / 230V / 240 V AC / \pm 1% / 0.8 Std., 0.9 Optional | | | | | |
| Output Frequency | Auto Sensing 50 /60 Hz \pm 1~10% Sync Mode (Configurable), 50/60 Hz \pm 0.2 Hz Battery Mode | | | | | |
| Harmonic Distortion(THD) | <2% (Linear Load), <5% (Non-linear Load) | | | | | |
| Crest Factor | 3 : 1 | | | | | |
| Efficiency | >90% | | | | | |
| BATTERY | | | | | | |
| DC Voltage | 36VDC | 36VDC | 72VDC / 96VDC | 72VDC / 96VDC | 72VDC / 96VDC | 72VDC / 96VDC |
| Internal Battery Type | 12V/7AH Sealed lead acid maintenance free battery | | | | | |
| Battery number | 3 | - | 6 or 8 | - | 6 or 8 | - |
| Backup Time | Full Load \geq 5min, As for long backup UPS, the backup time is determined by the capacity of the external battery. | | | | | |
| Charge Current (A) | 1 | 6 | 1 | 6 | 1 | 6 |
| Typical Recharge Time | 8 Hours (to 90% of full capacity) | | | | | |
| SYSTEM FEATURES | | | | | | |
| LCD Indication | Input Voltage / Frequency, Output Voltage / Frequency, Battery voltage, Load Watt / VA and %, Inverter temperature, operation mode such as "On line", "On Batt" or "On Bypass", Fault Codes, Battery & Load Bar graph | | | | | |
| LED Indication | Normal Operation, Bypass, Fault and Battery Mode | | | | | |
| Alarms / Protection | Batt. Low, DC High, Inverter under/over Voltage, UPS overload, Short Circuit, FAN Failure and UPS Fault | | | | | |
| Overload Capability | >110% 30s transfer to bypass mode , >150% 300ms transfer to bypass mode | | | | | |
| Transfer Time | AC to battery : 0ms and Inverter to bypass : 4ms (typical) | | | | | |
| Communication Interface | RS232 ; SNMP (optional) /USB (optional) | | | | | |
| ENVIRONMENT | | | | | | |
| Temperature | Operating: 0 ~ 40 deg C and Storage: -25 ~ 55 deg C | | | | | |
| Humidity / Altitude | 0~95% RH Non - condensing / < 1500m | | | | | |
| Noise | Low Audible Noise Level | | | | | |
| PHYSICAL | | | | | | |
| Dimension WxDxH (mm) | 144x400x215 | | 191x469x339 | | | |
| Gross Weight (kg) | 13 | 6.8 | 26.5 / 31 | 13.4 / 13.4 | 26.6 / 31.5 | 13.6 / 13.9 |
| STANDARDS | | | | | | |
| Safety | Complaint to IEC62040 -1 | | | | | |
| EMC | Complaint to IEC62040 -2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5 | | | | | |
| Certification | CE / ROHS / ISO 9001 / ISO 14001 | | | | | |

*Specifications are subject to change without prior notice.

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