

Uninterruptible Power Supplies

Advanced, High Efficiency Back-up Power Source For Critical Gas and Flame Detection Systems

- * Modular, Rugged Industrial Design For Critical Applications
- * Comprehensive Diagnostic & Monitoring Functions
- * Electronic Overload and Short Circuit Protection
- * Autoselect AC Input Range for Use World Wide
- * Superior Battery Management for Extended Battery Life
- * Requires Single 12V Battery for +24VDC Output
- * High Efficiency Fanless Design Requires No Active Cooling
- * End of Charge Setting Maximizes Performance in High Temp Areas
- * Highly Visible LEDs for Status, Diagnosis and Check Wiring
- * Dry-Contact Outputs for Ready, Buffering and Replace Battery
- * Programmable Buffering Time Limits Max Battery Discharge
- * Operating Unit Temperature Range of -15°C to +50°C
- * Three-year Warranty
- * Manufactured in USA

The GDS UPS-X family of advanced, high efficiency DC-based uninterruptible power supplies are designed to provide temporary backup power for critical gas and flame detection systems.

Critical Power Requirements

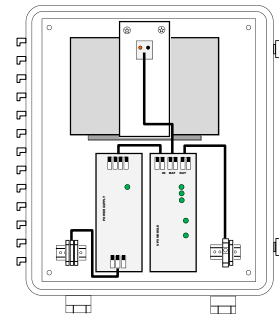
Typical gas and flame detection systems consist of one or more controllers and multiple remote sensors. In most cases, the controllers provide DC power for the sensors as well as warning horns and strobe lights. A DC UPS connected to the controllers can provide temporary backup power for the entire warning system in the event that main AC power is lost. Even short outages can result in minutes of downtime as the controllers reboot and the sensors reestablish their normal operating conditions.

Microprocessor-Controlled DC-UPS

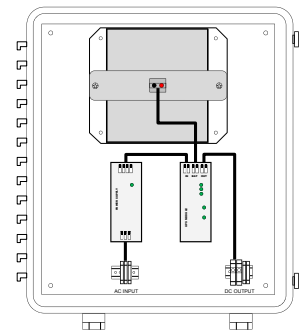
Typical commercial UPS systems convert incoming AC to DC for storage and then back to AC, which is then converted back to DC by the gas or flame system's power supplies. DC-UPS systems convert AC to managed DC for use directly by the controller's electronics, improving efficiency and increasing backup time.

UPS Family

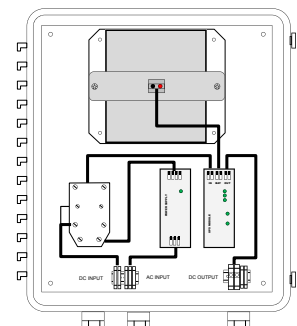
The UPS-1 includes a single AC power supply, DC UPS controller and 7 Amp-Hour battery in a non-metallic ventilated enclosure, and is capable of providing 6A at 24VDC for up to 15 minutes (see chart on back). The UPS-2 system incorporates a larger battery (26 AH) that enables the same load to be powered for 100 minutes, providing additional time to restore power or bring backup power generators online. The UPS-3 system incorporates dual power supplies that allow the unit to be hard wired to two independent AC sources, resulting in effortless switch-over between primary and secondary busses. An additional option allows one of the sources to be +24VDC.



UPS-1
240W, 7AH



UPS-2
240W, 26 AH



UPS-3
240W, 26AH
Single or Redundant AC or DC Input

GDS
Corp

Gas and Flame Detection

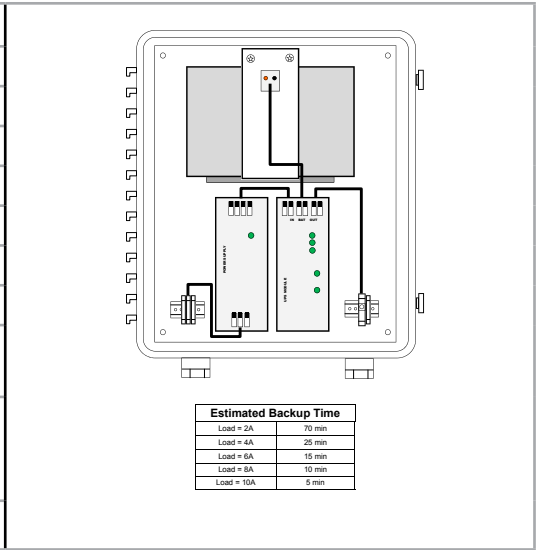
1245 Butler Road

League City, TX 77573

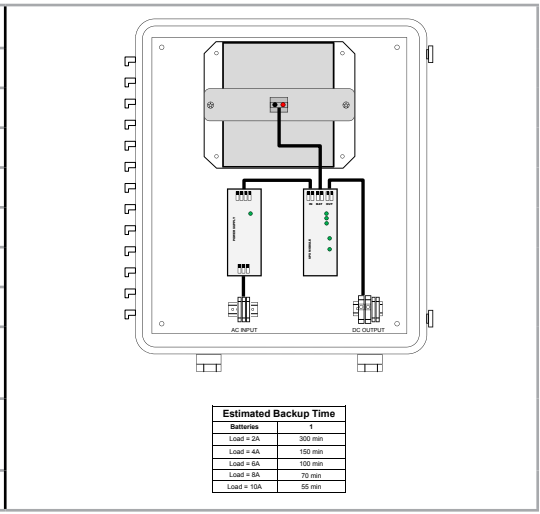
409-927-2980 • 409-927-4180 (fax)

www.gdscorp.com • info@gdscorp.com

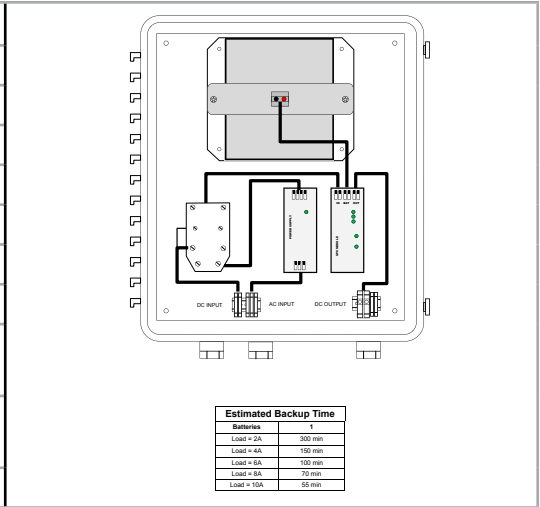
UPS-1 SPECIFICATIONS	
AC Input	100 to 120 VAC, 200 to 240VAC, 50/60Hz (auto select)
DC Output	24VDC, 10A (240W)
Batteries	Sealed, maintenance-free lead acid, 7 amp-hour
Charging Time	Five hours nominal
Shutdown	Automatic below 22V
Temp	-10°C to +40°C Charging; -15°C to +50°C Operating
Housing	Non-metallic, vented top and bottom
Dimensions	Width 12.75" (324 mm), Height 15.4" (391 mm), Depth 7.7" (196 mm) Shipping weight 35 pounds (15.8 kg)
Approvals	Power supply: IEC 60950-1, UL 508, ABS UPS: IEC 60950-1, UL 1604 for Class I, Div 2, Grps A,B,C,D Battery: CE Mark, Marine GL classified for marine & offshore
Warranty	2 years from date of shipment



UPS-2 SPECIFICATIONS	
AC Input	100 to 120 VAC, 200 to 240VAC, 50/60Hz (auto select)
DC Output	24VDC, 10A (240W)
Batteries	Sealed, maintenance-free lead acid, 26 amp-hour
Charging Time	17 hours nominal
Shutdown	Automatic below 22V
Temp	-10°C to +40°C Charging; -15°C to +50°C Operating
Housing	Non-metallic, vented top and bottom
Dimensions	Width 14.75" (375 mm), Height 17.4" (441 mm), Depth 9.7" (246 mm) Shipping weight 45 pounds (20.4 kg)
Approvals	Power supply certified for Class I, Div 2, Grps A, B, C, D. UPS UL 60950-1, UL 508, FCC Part 15, Class A
Warranty	2 years from date of shipment



UPS-3 SPECIFICATIONS	
AC Input	100 to 120 VAC, 200 to 240VAC, 50/60Hz (auto select)
DC Output	24VDC, 20A (480W)
Batteries	Sealed, maintenance-free lead acid, 26 amp-hour
Recharge Time	17 hours nominal
Shutdown	Automatic below 22V
Temp	-10°C to +40°C Charging; -15°C to +50°C Operating
Housing	Non-metallic, vented top and bottom
Dimensions	Width 14.75" (375 mm), Height 17.4" (441 mm), Depth 9.7" (246 mm) Shipping weight 55 pounds (25 kg)
Approvals	Power supply certified for Class I, Div 2, Grps A, B, C, D. UPS UL 60950-1, UL 508, FCC Part 15, Class A
Warranty	2 years from date of shipment



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