

HP312CX

Switching Power Supply/ Charger Kit

Description

The HP312CX switching power supplies/charger kit converts low-voltage AC input into 6 VDC or 12 VDC @ 2.5 A of continuous supply current, or 1.0 A @ 24 VDC. This general-purpose power supply has a wide range of applications for access control, security and CCTV systems that require additional power. For convenient operation, this power supply unit includes the power supply board, a plug-in transformer, steel enclosure, 5 AH/12 V battery, battery leads, and connecting hardware.

Benefits

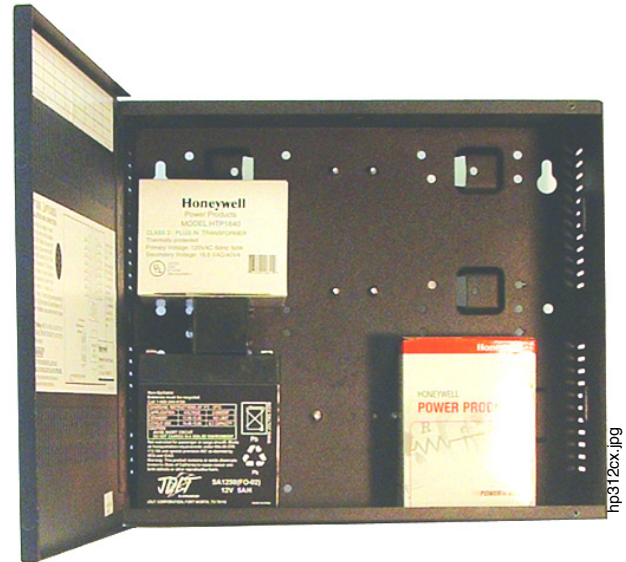
- An all-in-one power supply and distribution unit enclosed in a roomy cabinet.
- Transformer thermal protection limits damage from overloaded circuits.
- LED lights for quick and easy diagnosis, troubleshooting, and status indication.
- Enclosure built for durability and product life.
- Power disconnect switch makes for easy servicing.
- Power cord included; three conductors for ground safety convenience.
- Comes in kit form with accessories included for quick installation.
- Instantaneous switchover to standby battery (if equipped) when AC fails, maintaining power to all attached devices without intervention.

LED Diagnostics

Red LED DC	Green LED AC	Status
ON	ON	Normal operation.
ON	OFF	Loss of AC. Operating on standby battery.
OFF	ON	No DC output. Short circuit or thermal overload present.
OFF	OFF	No DC output. Loss of AC. Battery discharged or not present.

Voltage Output Selection

Output	SW1 On is up	SW2 On is up
24 VDC	OFF	ON
12 VDC	OFF	OFF
6 VDC	ON	OFF



Features and Specifications

- Switch selectable 6 VDC/12 VDC/24 VDC.
 - At 6 VDC or 12 VDC, the output is 2.5 A total; at 24 VDC, the output is 1.0 A total. If a battery charger is used, subtract maximum charge current of 400 mA from total to determine allowable load.
- HP312CX includes the power supply (**HPS3**) and a 24 VAC thermally limited 50 VA plug-in transformer with power LED indicator.
 - Do not use enclosed battery for 6 VDC output; use a 6 VDC, 5 AH battery (suggested: Powersonic **PS-650L**).
- UL-Listed to UL294 Access Control Systems and UL2044 CCTV Equipment.
- Filtered and electronically regulated output.
- Built-in charger for sealed lead-acid or gel-type batteries.
- Standby specification:
 - At 6 VDC, unit provides two hours of standby at 2.1 A with a 6 V, 5 AH battery.
 - At 12 VDC, unit provides two hours of standby at 2.1 A with a 12 V, 5 AH battery.
 - At 24 VDC, unit provides eight hours of standby at 600 mA with two 12 V, 5 AH batteries.
- Automatic switchover to standby battery when AC fails.
- Thermally limited design.
- Circuit breaker battery protection.
- AC input (green) and DC output (red) LED diagnostic indicators.
- Hinged cover and vented enclosure with five convenient knockouts.
- Temperature range: 32°F to 120°F (0°C to 49°C); indoor use only.
- Enclosure dimensions:
 - 10.0" H x 11.5" W x 4.875" D
 - (cm: 25.4 H x 29.21 W x 12.38 D).

Listings

Listings and approvals below apply to the basic HP312CX kit. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL Listed: file BP9784

Ordering Information

HP312CX: Switching power supplies/charger kit. Includes HPS3 power supply board, a plug-in transformer, steel enclosure, 5 AH/12 V battery, battery leads, and connecting hardware.

PS-650L: 6 VDC, 5 AH battery for 6 VDC output.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.
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