

## HP512CX

### Switching Power Supply/ Charger Kit

#### Description

The HP512CX switching power supply/charger kit converts low-voltage AC input into 6 VDC or 12 VDC @ 4.0 A of continuous supply current or 24 VDC @ 2.5 A of supply current. 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, transformer, steel enclosure, 5 AH/12 V battery, battery leads, and connecting hardware.

#### LED Diagnostics

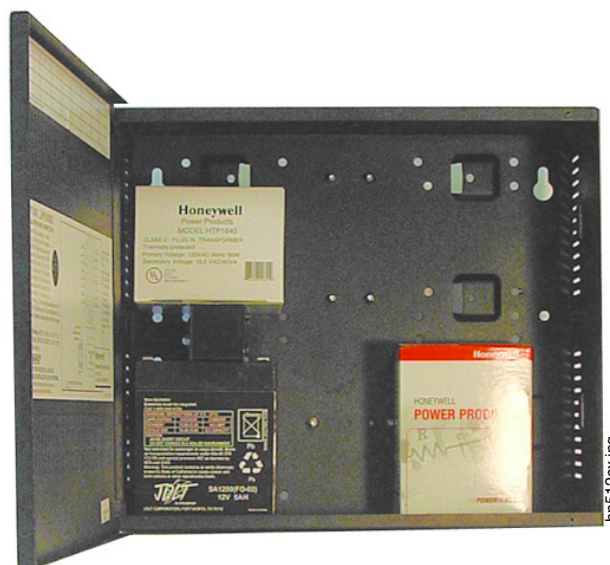
Red LED DC	Green LED AC	Status
ON	ON	Normal operation.
ON	OFF	Loss of AC. Operating on standby battery.
OFF	ON	No DC output. Short circuit or thermal overload present.
OFF	OFF	No DC output. Loss of AC. Battery discharged or not present.

#### Voltage Output Selection

Output	SW1 <i>On is up</i>	SW2 <i>On is up</i>
24 VDC	OFF	ON
12 VDC	OFF	OFF
6 VDC	ON	OFF

#### Benefits

- An all-in-one power supply unit, includes battery and transformer, enclosed in 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 and has 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.



#### Features and Specifications

- Switch selectable 6 VDC/12 VDC/24 VDC.
  - At 6 VDC or 12 VDC, the output is 4.0 A total; at 24 VDC, the output is 2.5 A total. If a battery charger is used, subtract maximum charge current of 400 mA from total to determine allowable load.
- HP512CX includes the power supply (HPS5) and a 28 VAC thermally limited 100 VA transformer.
  - Do not use enclosed battery for 6 VDC output; use a 6 VDC, 5 AH battery (suggested: Powersonic PS-650L).
  - For 24 V operation, use two 12 V batteries.
- UL-Listed to UL294 Access Control Systems and UL 2044 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 0.5 hour @ 2.65 A with a 6 V, 5 AH battery.
  - At 12 VDC, unit provides 0.5 hour @ 3.2 A with a 12 V, 5 AH battery.
  - At 24 VDC, unit provides 0.5 hour @ 2.1 A with two 12 V, 5 AH batteries.
- Automatic switchover to standby battery when AC fails.
- Thermally limited design.
- Replace terminal block fuse with 2.0 A, 250 V fast-blow fuse, size 5 mm x 20 mm.
- Circuit breaker battery protection.
- AC input (green) and DC output (red) LED diagnostic indicators.
- Compact design.
- 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 HP512CX 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

**HP512CX:** Switching power supplies/charger kit. Includes HPS5 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

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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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