

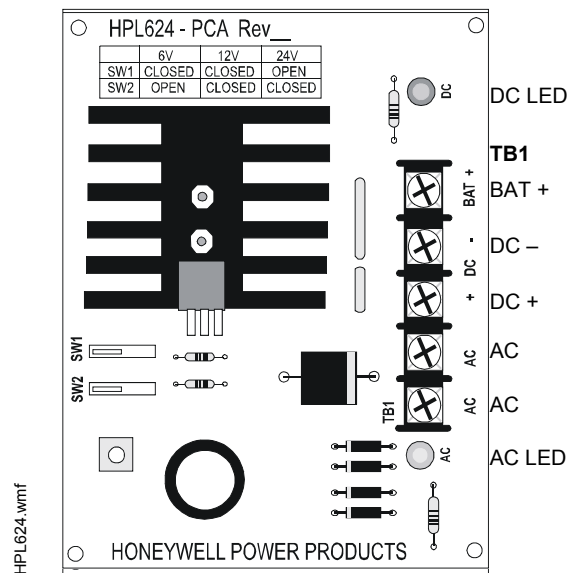
## HPL624-12C: Power Supply/Charger Kit

### 1 Introduction

The HPL624-12C power supply/battery charger converts a low voltage AC input into an output of 6 VDC or 12 VDC @ 1.2 amps of continuous supply current (see Section 2). This general purpose linear power supply can provide additional power for a variety of applications such as access control, security and CCTV system accessories. For convenient operation using line power, this kit includes a HTP1620 plug-in transformer (for 12 VDC operation) and a 12V 5Ah rechargeable battery.

### 2 Specifications

- Switch selectable for 6 VDC or 12 VDC output.
- 1.2 amps of continuous supply current at 6 VDC or 12 VDC.
- Filtered and electronically regulated output.
- Built-in charger for sealed lead acid or gel type batteries.
- Maximum charge current of 500 mA.  
 If a battery charger is used, subtract max charge current of 500 mA from total to determine allowable load.
- Automatic switchover to stand-by battery upon AC fail.
- PTC battery protection.
- Thermally limited design.
- LED indicators for AC input and DC output.
- Compact design (board dimension 3"D x 4"W x 1.5"H).
- Temperature range 32° F to 120° F. (Indoor use only.)
- Battery leads and foam mounting tape included.



### 3 Voltage Output and Transformer Selection

Table 1

Output Voltage/Current	Switch		Transformer Requirements
	SW1	SW2	
12 VDC @ 1.2 amps continuous supply current	Closed	Closed	16.5VAC / 20 VA (model HTP1620) <i>included in kit</i>
6 VDC @ 1.2 amps continuous supply current	Closed	Open	12VAC / 20 VA (model HTP1220) <i>purchase separately</i>

## 4 Installation Instructions

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NOTE: This instruction sheet shall be the only document referenced when installing this product.

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1. Unpack product. Do not discard packing materials until installation and checkout are successfully completed.
2. Pre-drill holes where enclosure is to be mounted. Choose a vertical surface, strong enough to support the full weight of the assembly, located in an area without excessive amounts of moisture. Indoor installation only.
3. Secure enclosure to the desired location, using appropriately sized fasteners that can support the full weight of the assembly.
4. Use switches SW1 and SW2 to select desired output voltage.(See Table 1.)
5. Mount power supply inside enclosure, as shown in Figure 1, with snap-in stand-offs supplied.
6. Locate wall outlet for plug-in transformer and disconnect power to its branch circuit.  
*DO NOT connect to an outlet controlled by a switch.*
7. Route wire to enclosure from plug-in transformer. Connect incoming AC (low voltage) into the incoming input terminals as shown.
8. Connect external loads to appropriate DC terminals observing polarity. (See Table 3.)
9. Connect battery to battery +/- terminals observing polarity using supplied red/black leads.
10. Route all power-limited wiring at least 1/4" (6.1 mm) from any non-power limited wiring, observing wire routing on diagram below.
11. Energize branch circuit. The green LED should illuminate to indicate voltage is reaching the unit. The red LED should illuminate showing DC voltage is present at the output. (See Table 2.)
12. Secure the cabinet cover with metal screws to prevent access by unauthorized personnel.

## 5 LED Indicators

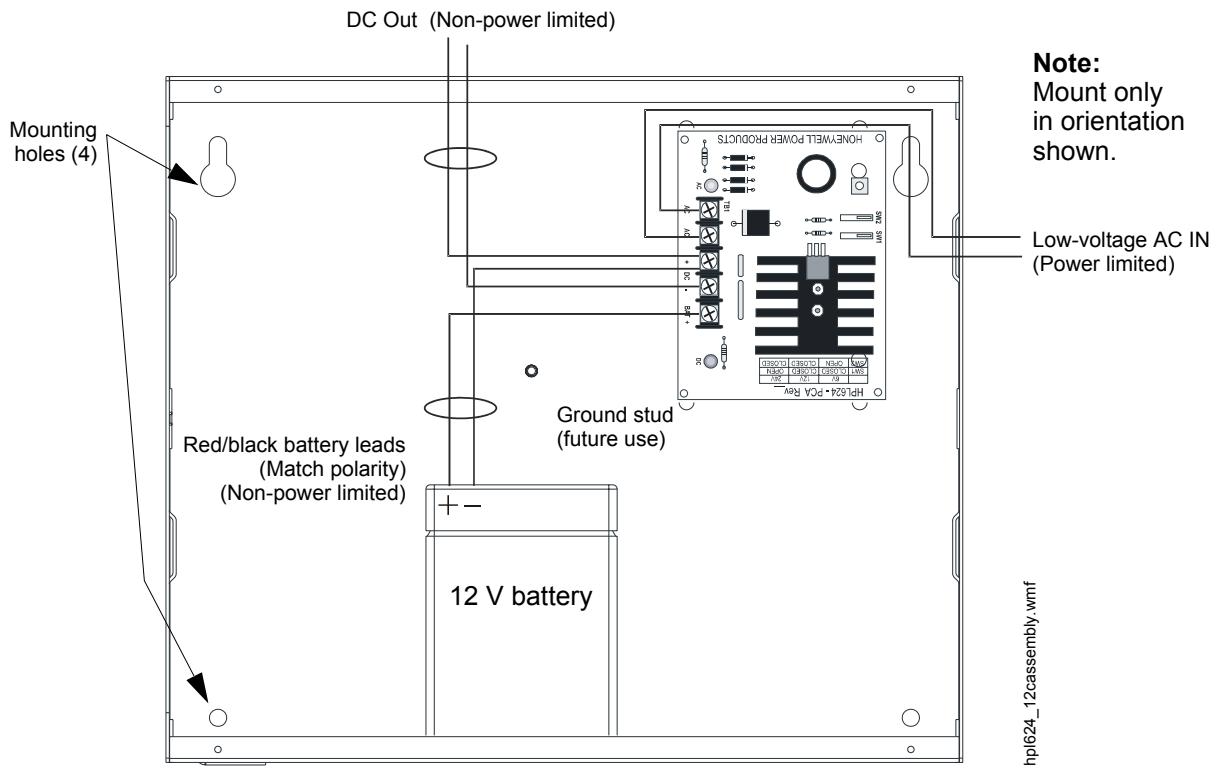
Table 2

Red (DC)	Green (AC)	Power Supply Status
ON	ON	Normal operating condition.
ON	OFF	Loss of AC, Stand-by battery supplying power.
OFF	ON	No DC output. Short circuit or thermal overload condition.
OFF	OFF	No DC output. Loss of AC. Discharged or no battery present.

## 6 Terminal Identification

Table 3

Terminal Label	Function/Description
AC AC	Low voltage AC input. (See Table 1 on page 1.)
- DC +	6 VDC – 12 VDC @ 1.2 amps continuous supply current output.
+ BAT	Stand-by battery connection. Maximum charge rate 500 mA. Connect BAT – to DC – terminal.



**Figure 1 Typical Assembled Kit and Wiring Diagram**



**WARNING:**

To reduce risk of electric shock, do not expose unit to rain or excessive moisture, and disconnect power before servicing unit.

- A readily accessible switched circuit breaker must be available to disconnect mains power as required.
- All power-limited wiring should be routed so that it cannot touch non-power-limited wiring; minimum spacing 1/4" (6.35 mm).
- No user-serviceable parts inside. Installation & servicing should only be made by qualified personnel.
- Install in accordance with all local regulations and the National Electrical Code



**NOTE:** For additional information

- Visit our website: <http://www.honeywellpower.com>
- Contact Technical Support: (800) 627-3473
- Email us: [hpp\\_techserv@fla-whq.com](mailto:hpp_techserv@fla-whq.com)