

2-679-0994 , 2-679-0996, 2-679-0995

Overview:

Hager power supplychargers convert a 120VAC, 60Hz input to a 12VDC or 24VDC output.

Configuration Chart:

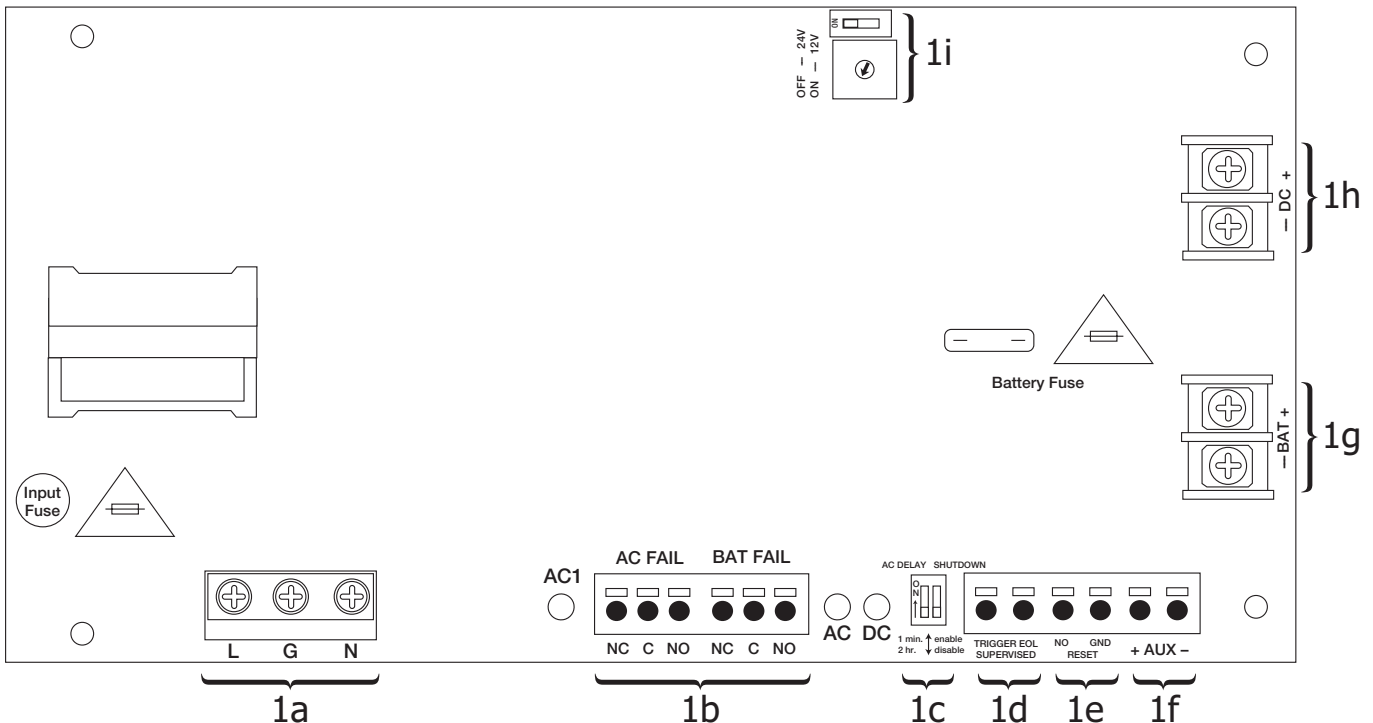
Hager Model Number	Input Rating 120VAC 60Hz	Output Voltage (Current)		Aux. Power-Limited Output (unswitched)	Maximum Charge Current	Battery Fuse
		12VDC	24VDC			
2-679-0994	3.5A	6A	6A	1A	1.54A	7.5A 32V
2-679-0995	3.5A	–	10A	1A	1.54A	15A 32V
2-679-0996	4.5A	10A	–	1A	1.54A	15A 32V

Specifications:

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- Input:**
- See Configuration Chart pg. 1.
- Output:**
- For output voltage and supply current refer to Configuration Chart, pg. 1.
 - Auxiliary Class 2 power-limited output rated @ 1A (unswitched).
 - Overvoltage protection.
- Battery Backup:**
- Built-in charger for sealed lead acid or gel type batteries.
 - Maximum charge current 1.54A.
 - Automatic switch over to stand-by battery when AC fails. Transfer to stand-by battery power is instantaneous with no interruption.
- Fire Alarm Disconnect:**
- Supervised Fire Alarm disconnect (latching or non-latching) 10K EOL resistor. Operates on a normally open (NO) or normally closed (NC) trigger.
- Supervision:**
- AC fail supervision (form "C" contacts).
 - Battery fail & presence supervision (form "C" contacts).
 - Low power shutdown. Shuts down DC output terminals if battery voltage drops below 71-73% for 12V units and 70-75% for 24V units (depending on the power supply). Prevents deep battery discharge.
- Fuse Ratings:**
- Refer to Configuration Chart pg. 1.
- Visual Indicators:**
- Green AC Power LED indicates 120VAC present.
 - AC input and DC output LED indicators.
- Additional Features:**
- Short circuit and overload protection.

Fig. 1



Installation Instructions:
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Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/NFPA 72/ANSI, the Canadian Electrical Code and with all local codes and authorities having jurisdiction. Product is intended for indoor use only.

1. Mount power supply/charger board in the desired location/enclosure (mounting hardware included).
3. Set desired DC output voltage by setting SW1 to the appropriate position on the power supply board (Fig. 1i, pg. 1).
4. Connect unswitched AC power (120VAC 60Hz) to terminals marked [L, G, N] (Fig. 1a, pg. 1).

Use 14 AWG or larger for all power connections. Secure green wire lead to earth ground.

Keep power-limited wiring separate from non power-limited wiring (120VAC 60Hz Input, DC Output (refer to Specifications chart pg. 1), Battery Wires). Minimum 0.25" spacing must be provided.

CAUTION: Do not touch exposed metal parts.

Shut branch circuit power before installing or servicing equipment.

There are no user serviceable parts inside. Refer installation and servicing to qualified service personnel.

5. Measure output voltage before connecting devices. This helps avoiding potential damage.
6. Connect devices to be powered to terminals marked [- DC +] (Fig. 1h, pg. 1).
 For auxiliary device connection this output will not be affected by Low Power Disconnect or Fire Alarm Interface. Connect device to terminals marked [+ AUX -] (Fig. 1f, pg. 1).
7. For Access Control applications batteries are optional. When batteries are not used, a loss of AC will result in the loss of output voltage. When the use of stand-by batteries is desired, they must be lead acid or gel type. Connect battery to terminals marked [- BAT +] (Fig. 1g, pg. 1). Use two (2) 12VDC batteries connected in series for 24VDC operation (battery leads included).
 Use batteries - Casil CL1270 (12V/7AH), CL12120 (12V/12AH), CL12400 (12V/40AH), CL12650 (12V/65AH) batteries or UL recognized BAZR2 batteries of an appropriate rating.
Note: Separate enclosure must be used for housing 40AH or 65AH batteries.
8. Connect appropriate signaling notification devices to AC FAIL & BAT FAIL (Fig. 1b, pg. 1) supervisory relay outputs.
9. To delay AC reporting for 2 hrs., set SW2 to appropriate DIP switch position [AC Delay] (Fig. 1c, pg. 1).
10. To enable or disable Low Output Power Shutdown set SW2 to appropriate DIP switch position [Shutdown] (Fig. 1c, pg. 1).
11. A short or NO or NC input triggers FACP [Trigger EOL Shutdown] (Fig. 1d, pg. 1).
12. Place a jumper for non-latching FACP. A momentary short on these terminals resets FACP latching [Trigger EOL Shutdown] (Fig. 1e, pg. 1).

Wiring:

Use 18 AWG or larger for all low voltage power connections.

Note: Take care to keep power-limited circuits separate from non power-limited wiring (120VAC, Battery)

Maintenance:

Unit should be tested at least once a year for the proper operation as follows:

Output Voltage Test: Under normal load conditions, the DC output voltage should be checked for proper voltage level.

Battery Test: Under normal load conditions check that the battery is fully charged, check specified voltage (12VDC @ 13.2 or 24VDC @ 26.4) both at the battery terminal and at the board terminals marked [- BAT +] to ensure that there is no break in the battery connection wires.

Replacing Batteries: Disconnect existing batteries. Connect battery to the terminals marked [- BAT +].
 Use two (2) 12VDC batteries connected in series for 24VDC operation.

LED Diagnostics:

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.
OFF	OFF	Loss of AC. Discharged or no stand-by battery. No DC output.

Terminal Identification:

Terminal Legend	Function/Description
L, G, N	Connect 120VAC 60Hz to these terminals: L to hot, N to neutral, G to ground (non power-limited) (Fig. 1a, pg. 1).
- DC +	2-679-0994: 12VDC or 24VDC @ 6A continuous output (Non Power-Limited output). 2-679-0996: 12VDC @ 10A continuous output (Non Power-Limited output). 2-679-0995: 24VDC @ 10A continuous output (Non Power-Limited output).
Trigger EOL Supervised	Fire Alarm Interface trigger input from a short or FACP. Trigger inputs can be normally open, normally closed from an FACP output circuit (Power-Limited input) (Fig. 1d, pg. 1).
NO, GND - RESET	FACP interface latching or non-latching (Power-Limited) (Fig. 1c, pg. 1).
+ AUX -	Auxiliary Power-Limited output rated @ 1A (unswitched) (Power-Limited output) (Fig. 1f, pg. 1).
AC Fail NC, C, NO	Indicates loss of AC power, e.g. connect to audible device or alarm panel. Relay normally energized when AC power is present. Contact rating 1A @ 30VDC (Power-Limited) (Fig. 1b, pg. 1).
Bat Fail NC, C, NO	Indicates low battery condition, e.g. connect to alarm panel. Relay normally energized when DC power is present. Contact rating 1A @ 30VDC. A removed battery is reported within 5 minutes. Battery reconnection is reported within 1 minute (Power-Limited) (Fig. 1b, pg. 1).
- BAT +	Stand-by battery connections. Maximum charge current 1.54A (non power-limited) (Fig. 1g, pg. 1).

Stand-by Specifications:

Battery	Access Control Applications Stand-by		
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7AH	10 Mins./6A	5 Mins./10A	5 Mins./10A
12AH	35 Mins./6A	15 Mins./10A	15 Mins./10A
40AH	Over 4 Hours/6A	Over 2 Hours/10A	Over 2 Hours/10A
65AH	Over 4 Hours/6A	Over 4 Hours/10A	Over 4 Hours/10A

Notes:

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____