NAPCO®
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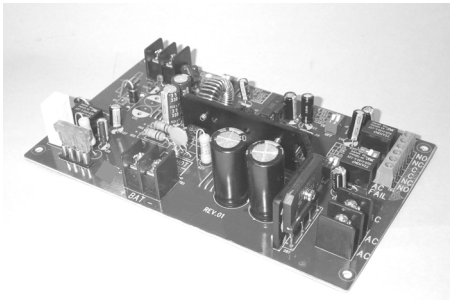
NP-P3ASUP
3 AMP SUPERVISED POWER SUPPLY/ CHARGER

WI1339A 12/05



DESCRIPTION

A *charger* and a *supervised power-limited supply*, the NP-P3ASUP converts low voltage AC input into a 12VDC or 24VDC power limited output, with 3A of continuous supply current.

FEATURES

- Maximum charge current .5 amps.
- 12VDC or 24VDC selectable output.
- 3 amps continuous supply current at 12VDC-24VDC.
- Filtered and electronically regulated outputs.
- Built-in charger for sealed lead acid or gel type batteries.
- Automatic switch over to stand-by battery when AC fails (zero voltage drop).
- AC input and DC output LED indicators.
- AC fail supervision (form "C" contacts).
- Low battery supervision (form "C" contacts).
- Short circuit and thermal overload protection.
- Includes battery leads.
  Board Dimensions: 179.3mm(L) x 108.7mm(W) x45mm(H)
  Specified at 25° C ambient.

VOLTAGE OUTPUT/TRANSFORMER SELECTION TABLE			
Output VDC	**Switch Position**	**Max. Load DC**	**Transformer Requirements**
12VDC	SW1-1 OFF	3 amps	24VAC / 100VA
24VDC	SW1-1 ON	3 amps	28VAC / 175VA-

INSTALLATION INSTRUCTIONS

The NP-P3ASUP should be installed in accordance with The National Electrical Code and all applicable Local Regulations.

1. Mount the NP-P3ASUP in desired location.
2. Set the NP-P3ASUP to desired DC output voltage via SW1 (see Voltage Output/Transformer Selection Table).
3. Connect proper transformer to terminals marked [AC] (see Voltage Output/Transformer Selection Table).
   Use 18 AWG or larger for all power connections (Battery, DC output).
   Use 22 AWG to 18 AWG for power limited circuits (AC Fail/Low Battery reporting).
4. Connect devices to be powered to terminals marked [+ DC -].
   Note: It is important to measure output voltage before connecting devices. This helps avoid potential damage.
5. When the use of stand-by batteries are desired, they must be lead acid or gel type.
   Connect battery to terminals marked [+ BAT -] on the board (battery leads included).
   Use two (2) 12VDC batteries connected in series for 24VDC operation.
   Note: When batteries are not used a loss of AC will result in the loss of output voltage.
6. Connect appropriate signaling notification devices to AC Fail & Low battery supervisory relay outputs marked [N.C., C, N.O.].

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. Short circuit or thermal overload condition.
OFF	OFF	No DC output. Loss of AC. Discharged or no battery.

TERMINAL IDENTIFICATION	
Terminal Legend	**Function/Description**
AC/AC	Low voltage AC input (see voltage output/transformer selection table). For 12VDC output use 24VAC or higher with 100 VA power rating or higher. For 24VDC output use 28VAC with 175VA power rating or higher. Caution: Do not apply voltages above 28VAC (28 VAC is maximum input rating)
+ DC -	12VDC/24VDC @ 3 amps continuous power limited output.
AC FAIL N.C., C, N.O.	Used to notify loss of AC power, e.g. connect to audible device or alarm NC, C, NO panel. Relay normally energized when AC power is present. Contact rating 1 amp @ 120VAC / 28VDC
Low Battery N.C., C, N.O.	Used to indicate low battery condition, e.g. connect to alarm panel. NC, NO, C Relay normally energized when DC power is present. Contact rating 1 amp @ 120VAC / 28VDC. Low battery threshold: 12VDC output threshold set @ approximately 10.5VDC, 24VDC output threshold set @ approximately 21VDC.
+ BAT -	Stand-by battery connections. Maximum charge rate .5 amp.