Battery Charger

Lead-Acid Battery Charger Switch-Mode Design	
Total Power	40 Watts
Input Voltages	90-264 VAC
Number of Outputs	Two

Product Specifications

ANZ#: Z036B, August 31, 2001

SPECIAL FEATURES

- Industrial Grade Application
- D/D efficiency up to 75% min.
- Full range AC input
- Regulated output
- Built in EMI filtering complies Class B
- Built-in remote sense to compensate drops
- Overload and short circuit protection

ELECTRICAL SPECIFICATIONS

Input range	90 to 264 VAC
Frequency	47 to 63 Hz
Inrush current	40.0 Amps maximum at 220Vac
Hold-up time	16.7mS
Efficiency	71 % typical at 120VAC and maximum load
EMI filtering	FCC part 15J class B CISPR 22 class B
Maximum power	40W
Voltage regulation	±1%
Hold up time	16mS at full load
Overload protection	Short circuit and overload protection: output short circuit, auto recovery

ENVIRONMENTAL

Operating temperature:	0 to 50 ° C
Storage temperature:	-20 to 85 ° C
Humidity (Non-Condensing):	5 to 95%
Cooling	15cfm across
Vibration Frequency:	5 to 50 Hz
Direction:	X, Y and Z axis

MTBF: >100,000 Hours at full load and 25ºC ambient conditions

SAFETY

UL/CUL	UL1950	- Pending
CB	TUV EN60950	- Pending
CE		- Pending

ORDERING INFORMATION

Model	Power max	Vout	Io min	Io max	Ripple P/P	Regulation	OVP Trip point
RP10431CH	40W	V1 +13.8V	0mA	2.0A	150mV	± 1%	20 – 24V
		V2 +5.0V	0mA	2.0A	60mV	± 1%	5.8 –7.0V

1. Ripple peak-to-peak with 20MHz bandwidth and a capacitor, 47uF/50V, cross-connected at testing point.

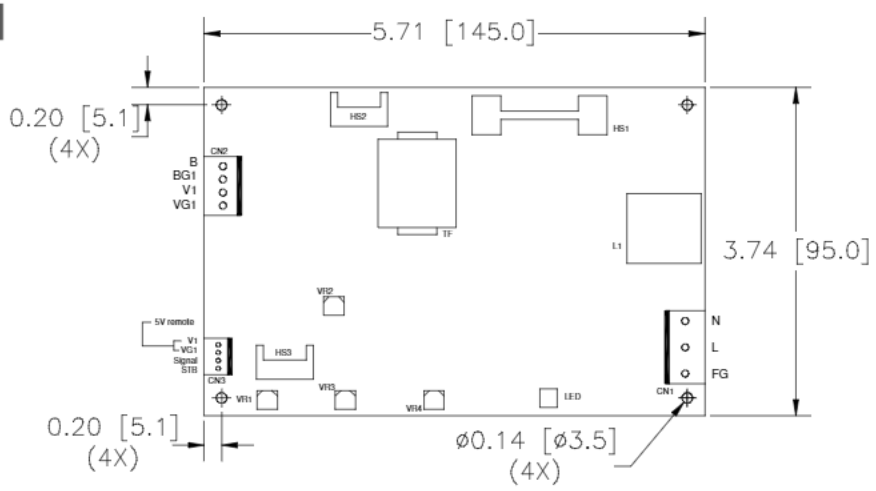
MECHANICAL DRAWINGS

AC Input:
Molex (0.156): p/n **5273-05A**

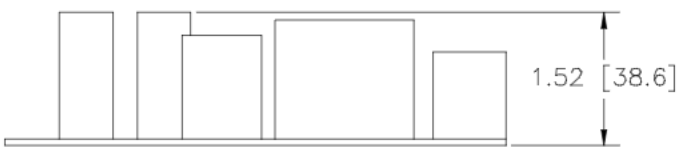
DC Outputs:
For battery: B1, BG1 (2 pin)
Molex, p/n **B04P-VH**

Logic Output: V1, G1 (2 pin),
Molex, p/n **B04P-VH1**

Dimension: 145 x 105 x 38 mm (LxWxH)



VR1: V1(+5V) Adj.
VR2: B(+14.4V) Adj.
VR3: Vblk(14.4V FAST Charge)/Vflt(13.8V SLOW Charge) Control Point Adj.
VR4: Do not touch.



1. Specification subject to change without notice.
2. All dimensions are in inches [mm].
3. Weight: 0.362 lb/ 0.164 kg

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