

# 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

## 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 25°C ambient conditions

## 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

## SAFETY

<b>UL/CUL</b>	UL1950	- Pending
<b>CB</b>	TUV EN60950	- Pending
<b>CE</b>		- 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.

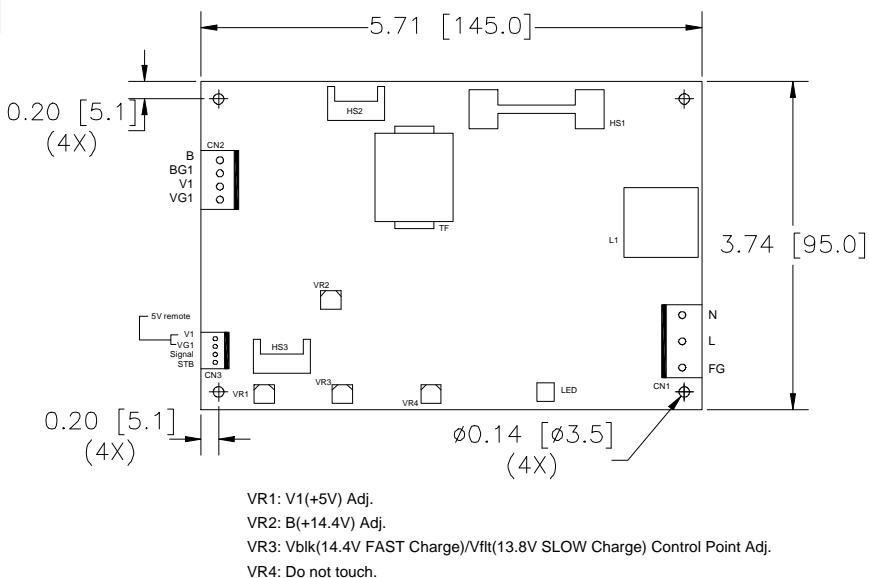
## MECHANICAL DRAWINGS

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)



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