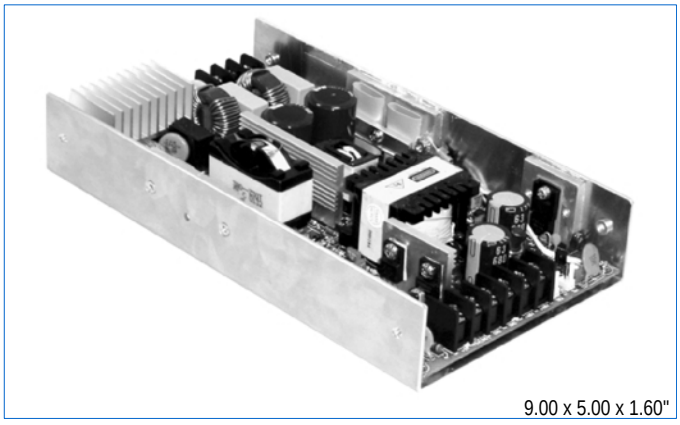
360 Watt U-Channel Single / Dual / Triple Output Switcher

SNP-Z30 Series



9.00 x 5.00 x 1.60"

Features

* Small Size- measures only 9.00 x 5.00 x 1.60"
* Convection Rating up to 300 Watts
* Only 18 cfm airflow required for full output power
* Zero Voltage / Zero Current Topology for High Efficiency
* Low Ripple / Noise, < 0.2% Typical

Input Specifications

Input Voltage	90VAC to 264VAC Input
Frequency	47Hz to 63Hz
Inrush Current	< 20A at 115VAC or 40A at 230VAC cold start
Efficiency	80-90% depends on models
Hold-Up	> 20mS at rated load and 115VAC

Output Specifications

Setpoint Accuracy	±1%
Adjustment	±10% Minimum
Line Regulation	1% Max
Load Regulatiuon	V1 = 1% Max / 5% Max all others
Ripple / Noise	0.25% pk-pk typical, <1% max @ 20 MHz

Environmental Specifications

Operating Temp	0 to 50°C Full Load, derate linearly to 50% power @ 70°C
Cooling	18 cfm airflow for 360 W / 300W Convection Cooled
Storage Temp	-20 / +85°C
Humidity	5-95% BNon-Condensing

Status / Control Signals

Remote Sense	Compensates for up to 500mv Drop
Fan Output	Unregulated Output for powering a dc fan
LED Output	Unregulated Output for DC Good LED

Safety & Emissions

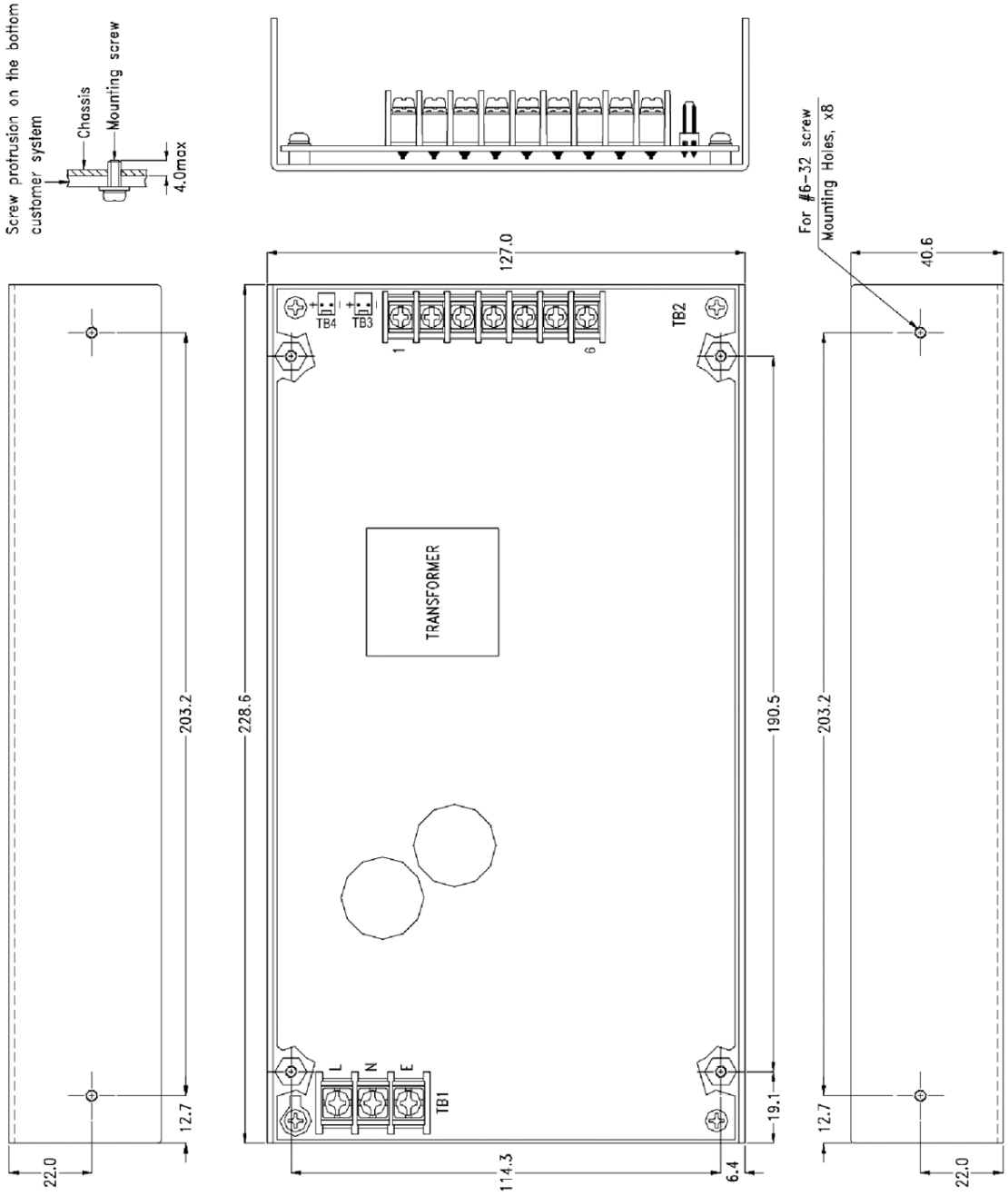
Safety Standards	UL60950, CSA 22.2 N0. 234, TUV EN60950, CE Mark (LVD)
Emmissions	EN55022 Class B

Output Models:

Model Number	V1 Output	V2 Output	V3 Output
SNP-Z301	5V / 45A	12V / 14A (floating)	-12V / 2A
SNP-Z30D	+3.3V / 30A	+5V / 30A	+12 / 10A
SNP-Z309	24V / 14.6A	5V / 2A (floating)	
SNP-Z30T	48V / 7.3A	5V / 2A (floating)	
SNP-Z306	+5V / 72A		
SNP-Z307	+12V / 30A	5V / 2A (floating)	
SNP-Z308	+15V / 23A	+12V / 0.5A (floating)	
SNP-Z30B	3.3A / 90A		

Notes / Options:

1. Each output can provide up to max load separately. Continuous staying in more than total output power is not allowed in free air convection. The max. load must be with 18 CFM fan cooling.
2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
3. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
4. Load regulation is defined by changing ±40% of measured output load from 60% rated load at another output set to 60% rated load.
5. Ripple & noise is measured by using 15MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor at rated load and nominal line.
6. Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.
7. Efficiency is measured at rated load and nominal line.



Model	1	2	3	4	5	6	7	8	9	10	11	12	LED	Fan		RS		Remarks
SNP-Z301	+5	+5	+5	Com	Com	Com	Com	Com	+12	-12								
SNP-Z306	+5	+5	+5	Com	Com	Com	Com	Com	Com	+5	+5	+5	TB3			TB4	5V	
SNP-Z307	+12	+12	+12	Com	Com	Com	Gnd	+5						TB3	12V	TB4	12V	
SNP-Z309	+24	+24	Com	Com	Gnd	+5								TB3	5V	TB4	24V	
SNP-Z30T	+48	+48	Com	Com	Gnd	+5								TB3	5V	TB4	48V	
SNP-Z30B	Com	Com	Com	+3.3	+3.3	+3.3												See Note
SNP-Z30D	+5	Com	+12	Com	3.3	Com										TB2	3.3V	Reference only See
																TB3	5V	

AC input	Terminal Block	TB3-1	N/C
DC Output	Terminal Block	TB3-2	Commom
		TB3-3	+RS
		TB3-4	Power Sharing
		TB3-5	
		TB3-6	-RS