



FEATURES:

- Universal Input 90-264VAC
- High Efficiency Up To 84%
- Short Circuit Protection
- Internal Input Filter
- 2 Years Warranty
- Open Frame



Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

Part Number	Input Voltage (VAC)	Output Wattage (W)	Output Voltage (VDC)	Output Current (mA)	Efficiency (TYP %)
GB025-S02-01	90-264	25	2.5	10000	76
GB025-S03-01	90-264	25	3.3	8000	76
GB030-S05-01	90-264	30	5	6000	79
GB030-S12-01	90-264	30	12	2500	80
GB030-S15-01	90-264	30	15	2000	84
GB030-S24-01	90-264	30	24	1250	84
GB030-D12-01	90-264	30	±12	±1250	83
GB030-D15-01	90-264	30	±15	±1000	84
GB020-D0503-01	90-264	20	+5/+3.3	+3A/+1.5A	71
GB030-D0512-01	90-264	30	+5/+12	+3A/+1.25A	81

Input Specifications

Parameters	Conditions		Min	Typ	Max	Units
Rated Input Voltage	Io nom			100~240		Vac
Voltage Range	Io nom	AC in	90		264	Vac
		DC in	120		370	Vdc
Line frequency	Vi nom, Io nom		47		63	Hz
Inrush Current	Io nom	Vi:115VAC			12	A
		Vi:230VAC			20	A

Output Specifications

Parameters	Conditions		Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, Io nom				±5	%
Minimum Load	Vi nom	Single Output Models	0			%
		Dual Output Models(each output)	20			%
Line Regulation	Io nom, Vi min...Vi max				±1	%
Load Regulation	Vi nom	Single Output Models			±2	%
		Dual Output Models			±5	%
		5V at dual output model			±2	%
Transient Recovery Time	Vi nom, Io nom = ↔ 0.5 Io nom			500		µs
Temperature Coefficient	Vi nom, Io nom				±0.02	% / °C
Ripple & Noise	Vi nom, Io nom	BW=20MHz			150	mVp-p
Efficiency	Vi nom, Io nom, Po/Pi		Up to 84%, See model list			

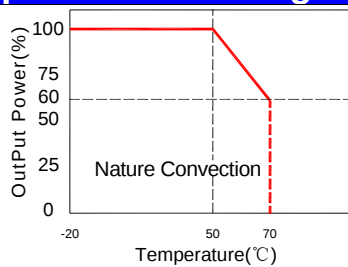
Yuan Dean Scientific CO.,LTD GB030 SERIES

20~30Watt, Single & Dual Output, AC-DC Open Frame Converter

General Specifications

Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	V_i nom, I_o nom		100		KHz
Isolation Voltage	Input / Output	3,000			Vac
Isolation Resistance	Input / Output, @500 Vdc	100			M Ω
Operating Temperature	Operating at V_i nom, I_o nom	-20		+70	$^{\circ}$ C
Derating	V_i nom, I_o nom+51 to 71 $^{\circ}$ C			2	%/ $^{\circ}$ C
Storage Temperature	Non Operational	-40		+85	$^{\circ}$ C
Relative Humidity	V_i nom, I_o nom			95	% RH
Dimension	L101.60 x W50.80 x H30.48				
Cooling	Free air convection				
Case Material	Plastic				

Temperature Derating Graph



Part Number

G B 030 - S 03 -01

A B C D E F

A:Series

B:Open Frame

C:Output Watt

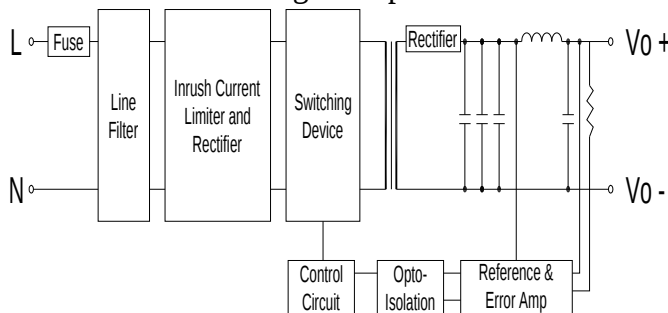
D:Single(S)Dual(D)

E:Output Voltage

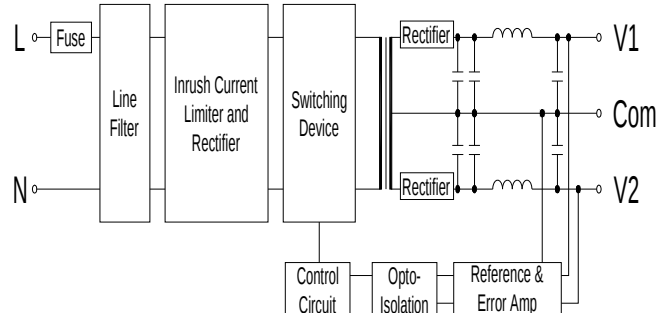
F:Types

Circuit Schematic

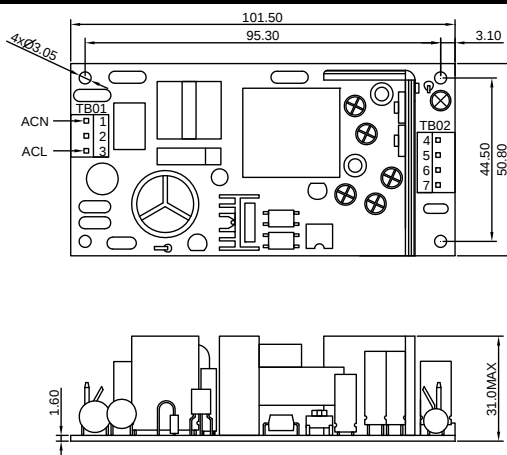
Single Output



Dual Output



Markings and dimensions



TB01	Model		
PIN	Single	Dual	Dual
1	ACN	ACN	ACN
2	No PIN	No PIN	No PIN
3	ACL	ACL	ACL
TB02			
4	+Vo	+Vo	+Vo1
5	+Vo	Com	+Vo2
6	Com	Com	Com
7	Com	-Vo	Com

Unit: mm Unless otherwise specified, all tolerances are ± 0.50