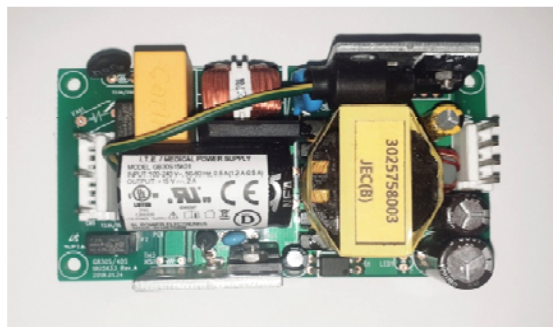


# GB30S Universal 20-30 Watt Series

- 100-240 Vac Universal Input
- Single Output to 20W-30W
- Regulated Output with Low Ripple
- Meets Safety Agency Requirements
- Modified and Custom Designs Also Available
- Internal Style



Model	Output Voltage DC (V)	Maximum Current (A)	Maximum Watts (W)	Ripple & Noise Vp-p max. (mV)
GB30-S-05-X-XX	5	4.00	20.0	50
GB30-S-09-X-XX	9	3.00	27.0	90
GB30-S-12-X-XX	12	2.50	30.0	120
GB30-S-15-X-XX	15	2.00	30.0	160
GB30-S-18-X-XX	18	1.67	30.1	180
GB30-S-24-X-XX	24	1.33	31.9	240
GB30-S-48-X-XX	48	0.63	30.2	480

### Input Specification

Input Voltage Range	100 to 240VAC -10%, +10%
Line Frequency	47 to 63 Hz
Input Current	1.0A max. at 90VAC Input
Protection	Internal Primary Current Fuse, Inrush Limiting

### Output Specification

Line & Load Regulation (at End of Cable)	Line Regulation	+/- 1%
	Load Regulation	+/- 5%
Ripple & Noise	1% Vp-p max.	
Transient Response	0.5ms for 50% Load change Typ.	
Protection	Over-current Protection	
	Over-voltage Protection(OVP)	
	Short Circuit Protection	

### Environmental Specification

Operating Temperature	0°C to 50°C with no derating
Relative Humidity	5% to 95% non-condensing
Altitude	0 - 5,000 m
Cooling	Convectonal

### Input Configuration



K, C Type



P, V Type

### General Specification

Topology	Switching - Fixed Frequency Flyback
Leakage Current	Less than 100uA
Dielectric Withstand	4,500VAC Primary - Secondary
	1,800VAC Primary - F.G
	500VDC Secondary - F.G
Storage Temperature	-40 °C to 85 °C
Efficiency	Basic voltage : Minimum Average Efficiency in Active Mode ≥ [0.071 * ln(Pout)-0.0014*P(out)] + 0.67
	Low voltage : Minimum Average Efficiency in Active Mode ≥ [0.0834 * ln(Pout)-0.0014*P(out)] + 0.609
Hold-up Time	20ms min. @100VAC
EMI	Complies with EMC Directives
Max. Power in No-Load	≤ 0.1W@115VAC & 230VAC
MTBF	250,000 Calculated Hours Minimum.
Safety	UL/EN/IEC60601-1, 3.1rd
	UL/EN/IEC62368-1
EMC	EN60601-1-1-2 /CISPR 11
	EN55032/CISPR 32
FCC	47 CFR FCC part 15 subpart B
Dimension	90L*48W*25H

### Part Number Key

<u>GB030</u>	<u>X</u>	<u>05</u>	<u>X</u>	<u>XX</u>
Product Family Name	Model Configuration	Volt (DC)	Input Configuration	Customer(Model) Number