

Desktop power supply

Features:

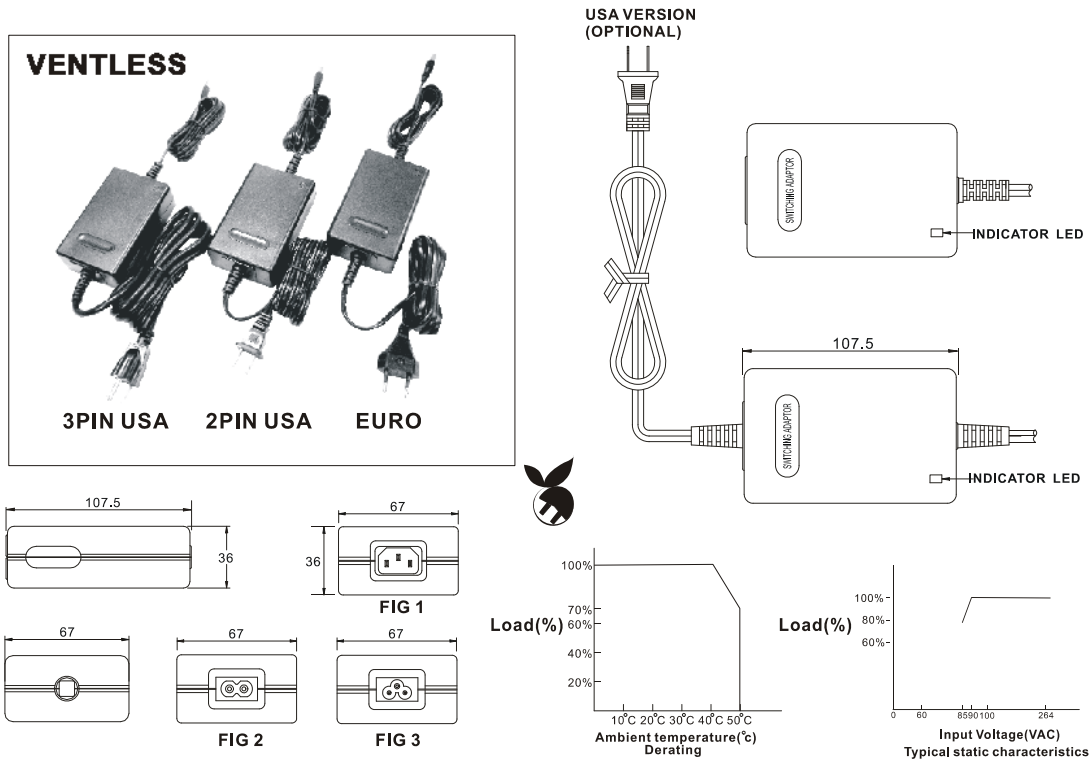
- Universal input voltage
- Single output
- Pass LPS for 8~50V output
- Optional output connectors
- Short circuit protection
- Over voltage protection
- Over current protection
- No load power consumption<0.3W
- Vout above 9V meet ENERGY STAR V
- One year limited warranty



SAFETY AGENCY APPROVALS:



| Specifications: | GPSU30 series: |
|--------------------------------|--|
| Input voltage | 100~240VAC |
| Input frequency | 50~60Hz (Limits:47~63Hz) |
| Input current | 0.7A Max. |
| Safety ground leakage current | Class1:3.5mA/Class2:0.25mA Max. @240VAC/50Hz |
| Output voltage | See rating chart |
| Output current | See rating chart |
| Output power range | See rating chart |
| Ripple | 1% peak to peak maximum. See rating chart |
| Over voltage protection | Yes. Protected by Zener diode. Rated output voltage 110~140% |
| Over current protection | Yes. Hiccup mode; Auto-recovery. Rated output current>110% |
| Short circuit protection | Yes. Hiccup mode; Auto-recovery. |
| Temperature coefficient | All output±0.04%/°C maximum |
| Transient response | Maximum excursion of 4% or better on all models. Recovering to 1% of final value within 500uS after a 25% step load change. |
| Operating temperature | 0°C~+40°C . See derating curve |
| Storage temperature | -40°C~+85°C |
| Relative humidity | 5% to 95% non-condensing |
| Derating | Derated from 100% at + 40°C linearly to 70% at 50°C |
| Avg. Efficiency | See rating chart |
| Setup up / Hold up / Rise time | Typical:200ms/ 10ms/50ms at full load |
| Line regulation | ±1% maximum for any input voltage change between input voltage range |
| Load regulation | Typical±5% variations from minimum to maximum output current. Or see rating chart |
| Insulation resistance | 50Mohm minimum from input to output |
| Inrush current | 20AMPS@115 VAC ; 60AMPS @ 230VAC at 25°C cold start |
| Withstand voltage | 4242VDC from input to output |
| Mean time between failure | 100,000 hours minimum at full load at 25°C ambient |
| EMI requirements | (A)CE:Emission:EN55022;EN61000-3-2,3/Immunity:IEC61000-4-2,3,4,5,6,11 (B)FCC 47 CFR Part 15 Subpart B .ICES-003 Issue 4 ANSI C63.4-2003 (C)VCCI:J55022(H14)V-3 / 06.04 and V-4/06.04 |
| Safety requirements | (A)UL60950-1; CSA C22.2 (B) EN60950-1;IEC60950-1 (C) J60950 |
| Warranty | 1year |



X=A=IEC-320-C14 (FIG1) or B=IEC-320-C8 (FIG2) or C=IEC-320-C6 (FIG3) or D=MAINS CORD INPUT

| Model name | Output Voltage(VDC) | Output Current(A) | Max. Output Power (W) | Ripple(mV) Max. | Line Regulation (%) | Load Regulation (%) | Avg. EFF (%) 25,50,75,100% load | No load Power Consumption(W) | Measured at the output of |
|--------------|---------------------|-------------------|-----------------------|-----------------|---------------------|---------------------|---------------------------------|------------------------------|---------------------------|
| *GPSU30X-0 | 3~5 | 5 | 15~25 | 50 | ±0.5 | 8(Note1) | 64 | <0.3 | 3.3 |
| *GPSU30X-1 | 5~6 | 5.00~4.17 | 25 | 50 | ±0.5 | 8(Note1) | 70 | <0.3 | 5 |
| *GPSU30X-1-1 | 6~8 | 4.15~3.13 | 25 | 80 | ±0.5 | ±5 | 76 | <0.3 | 7.5 |
| GPSU30X-2 | 8~11 | 3.71~2.73 | 30 | 80 | ±0.5 | ±5 | 83.49 | <0.3 | 9 |
| GPSU30X-3 | 11~13 | 2.70~2.31 | 30 | 120 | ±0.5 | ±5 | 83.49 | <0.3 | 12 |
| GPSU30X-4 | 13~16 | 2.29~1.88 | 30 | 140 | ±0.5 | ±3 | 83.49 | <0.3 | 15 |
| GPSU30X-5 | 16~21 | 1.86~1.43 | 30 | 140 | ±0.5 | ±3 | 84 | <0.3 | 18 |
| GPSU30X-6 | 21~27 | 1.43~1.12 | 30 | 150 | ±0.5 | ±3 | 84 | <0.3 | 24 |
| GPSU30X-7 | 27~33 | 1.12~0.91 | 30 | 240 | ±0.5 | ±2 | 84 | <0.3 | 28 |
| GPSU30X-8 | 33~50 | 0.91~0.61 | 30.5 | 240 | ±0.5 | ±2 | 84 | <0.3 | 48 |

Y: U1=3Pin American type AC power cord (with FG) or U=2Pin American type AC power cord or E=European type AC power cord

| Model name | Output Voltage(VDC) | Output Current(A) | Max. Output Power (W) | Ripple(mV) Max. | Line Regulation (%) | Load Regulation (%) | Avg. EFF (%) 25,50,75,100% load | No load Power Consumption(W) | Measured at the output of |
|----------------|---------------------|-------------------|-----------------------|-----------------|---------------------|---------------------|---------------------------------|------------------------------|---------------------------|
| *GPSU30D-0-Y | 3~5 | 5 | 15~25 | 50 | ±0.5 | 8(Note1) | 64 | <0.3 | 3.3 |
| *GPSU30D-1-Y | 5~6 | 5.00~4.17 | 25 | 50 | ±0.5 | 8(Note1) | 70 | <0.3 | 5 |
| *GPSU30D-1-1-Y | 6~8 | 4.15~3.13 | 25 | 80 | ±0.5 | ±5 | 76 | <0.3 | 7.5 |
| GPSU30D-2-Y | 8~11 | 3.71~2.73 | 30 | 80 | ±0.5 | ±5 | 83.49 | <0.3 | 9 |
| GPSU30D-3-Y | 11~13 | 2.70~2.31 | 30 | 120 | ±0.5 | ±5 | 83.49 | <0.3 | 12 |
| GPSU30D-4-Y | 13~16 | 2.29~1.88 | 30 | 140 | ±0.5 | ±3 | 83.49 | <0.3 | 15 |
| GPSU30D-5-Y | 16~21 | 1.86~1.43 | 30 | 140 | ±0.5 | ±3 | 84 | <0.3 | 18 |
| GPSU30D-6-Y | 21~27 | 1.43~1.12 | 30 | 150 | ±0.5 | ±3 | 84 | <0.3 | 24 |
| GPSU30D-7-Y | 27~33 | 1.12~0.91 | 30 | 240 | ±0.5 | ±2 | 84 | <0.3 | 28 |
| GPSU30D-8-Y | 33~50 | 0.91~0.61 | 30.5 | 240 | ±0.5 | ±2 | 84 | <0.3 | 48 |

*NO LPS SAFETY

Note: (1) The load regulation c/be at ±5% with remote sensor

(2) Weight: Approx300~400g

(3) Optional output connectors (see page 75)

(4) ENERGY STAR V standard output cable

8~11V: SPT-2_16AWG_4FT

11~50V: SPT-1_18AWG_6FT