

ELJINTEK, INC.

SWITCH MODE POWER SUPPLY

GPSN50X-14E SPECIFICATION

1)INPUT:

- A) INPUT VOLTAGE RANGE 100 TO 240VAC
- B) INPUT FREQUENCY RANGE 47 TO 63 HZ
- C) INPUT CURRENT 1.6A MAX
- D) LEAKAGE CURRENT 3.5mA MAX.@240VAC/50HZ

2)OUTPUT:

- A) OUTPUT VOLTAGE
 - +5VDC / 4 AMPS
 - +15VDC /1.6 AMPS
 - 15VDC / 500mAMPS
- B) OUTPUT POWER 51.5WATTS MAX
- C) RIPPLE & NOISE
 - 100mVp-p MAX. (+5VDC)
 - 150mVp-p MAX.(+15VDC)
 - 150mVp-p MAX.(-15VDC)
 - (±1% PEAK TO PEAK MAXIMUM)(AT 20MHZ B.W)
- D) NO LOAD & FULL LOAD REGULATION + 5VDC 、 +15VDC 、 -15VDC (±5% MAXIMUM)
- E) CROSS LOAD REGULATION
 - + 5VDC (±5% MAXIMUM)
 - +15VDC (±5% MAXIMUM)
 - 15VDC (±15% MAXIMUM)

OUTPUT LEVEL	MIN. LOAD	HALF LOAD	MAX. LOAD
+5VDC	0.8A	2.0 A	4.0 A
+15VDC	0.32A	0.8A	1.6 A
-15VDC	0.1A	0.25A	0.5A

- F) OVER VOLTAGE PROTECTION
- G) OVER CURRENT PROTECTION
- H) OUTPUT SHORT PROTECTION

YES. PROTECTED BY ZENER DIODE.
 YES. HICCUP MODE; AUTO-RECOVERY.
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 (WHEN 5V OUTPUT SHORT ,ONLY 5V ACTIVE)

3)ENVIRONMENTAL:

- A) OPERATING TEMPERATURE -20 TO +70°C (SAFETY APPROVAL TO +40°C)
- B) STORAGE TEMPERATURE -40 TO +85°C
- C) RELATIVE HUMIDITY 5% TO 95% NON-CONDENSING
- D) DERATING FORM 100% AT 30°C LINEARLY TO 70% AT +50°C

4)GENERAL:

- A) EFFICIENCY AVG. EFF. 86% MIN. AT 115/230VAC
- B) NO LOAD POWER CONSUMPTION < 0.3W
- C) HOLD-UP TIME 10 m SEC / 115VAC AT FULL LOAD
- D) LINE REGULATION 1% MAXIMUM AT FULL LOAD
- E) INRUSH CURRENT 95AMPS MAX. / 230VAC AT 25°C COLD START
- F) WITHSTAND VOLTAGE 4242VDC FROM INPUT TO OUTPUT
- G) INSULATION RESISTANCE 50MΩ MINIMUM FROM INPUT TO GROUND
- H) MEAN TIME BETWEEN FAILURE 100,000 HOURS MIN. AT FULL LOAD AT 25°C AMBIENT
- I) EMC REGULATIONS
 - (A)EN55032: 2015+A1+A11: 2020 , Class B
 - EN55035: 2017+A11: 2020
 - EN61000-3-2,3,IEC61000-4-2,3,4,5,6,8,11
 - (B) FCC 47 CFR PART 15 SUBPART B
 - (A) UL/CUL 62368-1 2nd edition,
 - (B) IEC62368-1:2014(C) EN62368-1:2014+A11
 - (A) DoE LEVEL VI (B) CoC VERSION 5(C) ErP STEP 2
 - 1 YEAR
- J) SAFETY STANDARD
- K) ENERGY REQUIREMENTS
- L) WARRANTY

5)CONSTRUCTIONS:

- (A) SIZE 146 (L)x 75.5(W) x 43(H) mm
- (B) ELECTRICAL CONSTRUCTION CLASS I
- (C) EARTH GROUND CONNECTION AC INLET (FG PIN) CONNECT TO OUTPUT PLUG SHELL THRU PCB BOARD.