

ELJINTEK, INC.

SWITCH MODE POWER SUPPLY

GPSN50X-58F 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	+21VDC / 1.52AMPS +48VDC / 0.125AMPS -21VDC / 1.52AMPS
B) OUTPUT POWER	69.84WATTS MAX
C) RIPPLE & NOISE	180mVp-p MAX. (+21VDC) 180mVp-p MAX.(+48VDC) 180mVp-p MAX.(-21VDC) (PEAK TO PEAK MAXIMUM)(AT 20MHZ B.W)
D) NO LOAD & FULL LOAD REGULATION	+21VDC & +48VDC & -21VDC (±5% MAXIMUM)
E) CROSS LOAD REGULATION	+21VDC (±5% MAXIMUM) +48VDC (±10% MAXIMUM) -21VDC (±10% MAXIMUM)

OUTPUT LEVEL	MIN. LOAD	HALF LOAD	MAX. LOAD
+21VDC	0.34A	0.76A	1.52 A
+48VDC	0.025A	0.063	0.125A
-21VDC	0.34A	0.76A	1.52 A

F) OVER VOLTAGE PROTECTION

YES. PROTECTED BY ZENER DIODE.

G) OVER CURRENT PROTECTION

YES. HICCUP MODE; AUTO-RECOVERY.

H) OUTPUT SHORT PROTECTION

YES. HICCUP MODE; AUTO-RECOVERY. (ONLY ±21V)

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 2 nd 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.