

ELJINTEK, INC.

LED DRIVER (CONSTANT VOLTAGE)

GLV30X-1 SPECIFICATION

1)INPUT:

A) INPUT VOLTAGE RANGE	100 TO 240VAC
B) INPUT FREQUENCY RANGE	47 TO 63 HZ
C) INPUT CURRENT	0.5A MAX
D) LEAKAGE CURRENT	0.25mA MAX.@240VAC/50HZ
E) POWER FACTOR	0.92 MIN. / 230VAC AT FULL LOAD
F) TOTAL HARMONIC DISTORTION	20% MAX / 230VAC AT FULL LOAD

2)OUTPUT:

A) OUTPUT VOLTAGE	+5VDC
B) OPEN CIRCUIT VOLTAGE	+8VDC MAX.
C) OUTPUT CURRENT	3.5A
D) OUTPUT POWER	30WATTS MAX.
E) RIPPLE & NOISE	2.5Vp-p MAX. (PEAK TO PEAK MAX. AT 20MHZ B.W)
F) LOAD REGULATION	3.50 TO 6.50 VDC($\pm 1.5V$)
G) OVER VOLTAGE PROTECTION	YES. PROTECTED BY ZENER DIODE.
H) OVER CURRENT PROTECTION	YES. HICCUP MODE; AUTO-RECOVERY.
I) OUTPUT SHORT PROTECTION	YES. HICCUP MODE; AUTO-RECOVERY.

3)ENVIRONMENTAL:

A) OPERATING TEMPERATURE	0 TO +40°C
B) STORAGE TEMPERATURE	-40 TO +85°C
C) RELATIVE HUMIDITY	5% TO 95% NON-CONDENSING
D) DERATING	FROM +40°C DERATE LINEARLY TO 70% AT +50°C

4)GENERAL:

A) EFFICIENCY	78% MIN. AT 115/230VAC
B) NO LOAD POWER CONSUMPTION	< 0.5W
C) HOLD-UP TIME	2% MAXIMUM AT FULL LOAD
D) LINE REGULATION	66AMPS MAX. / 230VAC AT 25°C COLD START
E) INRUSH CURRENT	4242VDC FROM INPUT TO OUTPUT
F) WITHSTAND VOLTAGE	50M Ω MINIMUM FROM INPUT TO GROUND
G) INSULATION RESISTANCE	100,000 HOURS MIN. AT FULL LOAD AT 25°C
H) MEAN TIME BETWEEN FAILURE	AMBIENT
I) EMC STANDARD	EN 55015: 2013 EN IEC 61000-3-2:2019 ;EN 61000-3-3:2013+A1:2019 EN 61547: 2009 IEC 61000-4-2: 2008 ;IEC 61000-4-3: 2020 IEC 61000-4-4: 2012 ;IEC 61000-4-5: 2014+A1: 2017 IEC 61000-4-6: 2013+C1: 2015 IEC 61000-4-8: 2009 ; IEC 61000-4-11: 2020+C1: 2020
J) SAFETY STANDARD	LVD (EN 61347-2-13:2014+A1:2017 used in conjunction with EN 61347-1:2015+A1:2021
L) WARRANTY	3 YEARS / 8 HOURS OF DAYS

5)CONSTRUCTIONS:

(A) SIZE	SHOWN AS DRAWING
(B) ELECTRICAL CONSTRUCTION	CLASS II