

**PSU.0011.0**

240W Constant Voltage + Constant Current LED Driver



**SPECIFICATION**

OUTPUT	DC VOLTAGE	24V
	CONSTANT CURRENT REGION <small>Note.4</small>	12 ~ 24V
	RATED CURRENT	10A
	RATED POWER	240W
	RIPPLE & NOISE (max.) <small>Note.2</small>	150mVp-p
	VOLTAGE TOLERANCE <small>Note.3</small>	± 1.0%
	LINE REGULATION	± 0.5%
	LOAD REGULATION	± 0.5%
	SETUP, RISE TIME <small>Note.6</small>	1000ms,80ms/115VAC 500ms,80ms/230VAC
	HOLD UP TIME (Typ.)	15ms / 115VAC, 230VAC
INPUT	VOLTAGE RANGE	90 ~ 305VAC 127 ~ 431VDC
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	PF≥ 0.98/115VAC, PF≥ 0.95/230VAC @full load
	TOTAL HARMONIC DISTORTION	THD< 20% (@load≥ 50%/ 115VAC,230VAC; @load≥ 75%/ 277VAC)
	EFFICIENCY (Typ.)	92.5%
	AC CURRENT (Typ.)	4A/ 115VAC 2A/ 230VAC 1.2A/ 277VAC
	INRUSH CURRENT (Typ.)	COLD START 75A( $t_{width}=57\mu s$ measured at 50% $I_{peak}$ ) at 230VAC; Per NEMA410
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	2 units (circuit breaker of type B) / 4 units (circuit breaker of type C) at 230VAC
LEAKAGE CURRENT	<0.75mA/ 277VAC	
PROTECTION	OVER CURRENT	95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed
	OVER VOLTAGE	27 ~ 34V Shut down and latch off o/p voltage, re-power on to recover
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down
ENVIRONMENT	WORKING TEMP.	T <sub>case</sub> = -40 ~ +90°C
	MAX. CASE TEMP.	T <sub>case</sub> = +90°C
	WORKING HUMIDITY	20 ~ 95% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH
	TEMP. COEFFICIENT	± 0.03%/°C (0 ~ 50°C)
VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes	
SAFETY & EMC	SAFETY STANDARDS	UL1012, CAN/CSA-C22.2 No. 107.1-01, UL8750(type"HL"), CSA C22.2 No. 250.0-08; TUV EN61347-1, EN61347-2-13 independent ; UL60950-1, UL8750, TUV EN60950-1; GB19510.1, GB19510.14 ; IP65 or IP67; J61347-1, J61347-2-13 approved
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70%RH
	EMC EMISSION	Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@load≥ 50%); EN61000-3-3, GB17743 and GB17625.1
EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV)	
OTHERS	MTBF	207.9K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	244.2*68*38.8mm (L*W*H)

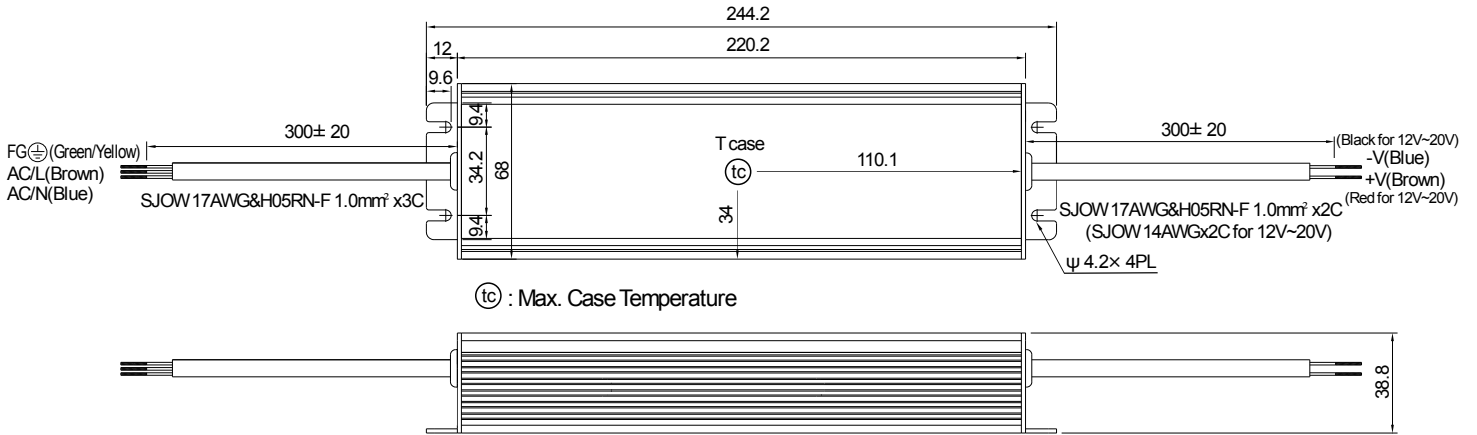
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**MECHANICAL SPECIFICATION**

Case No.994C Unit:mm

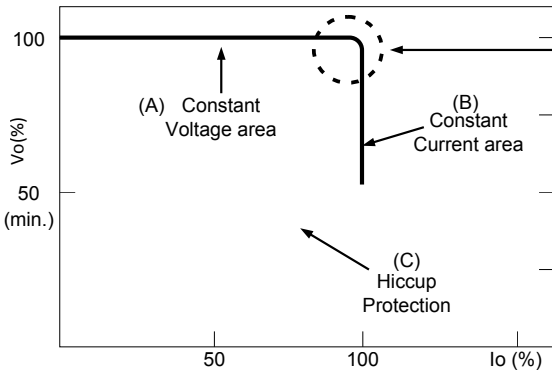
※ Blank/D-Type



(tc) : Max. Case Temperature

**DRIVING METHODS OF LED MODULE**

※ This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEANWELL.