

## ARPV-LG48100 (48V, 2,1A, 100W, PFC)

### Features:

- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built\_in active PFC function
- Fully encapsulated with IP67 level
- UL1310 Class 2 power unit, pass LPS
- Cooling by free air convection
- 100% full load burn-in test
- High reliability
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Damp / wet location outdoor application



### Specification:

OUTPUT	DC VOLTAGE	48V
	CURRENT RANGE	2.1A
	RATED POWER	100.8W
	RIPPLE & NOISE (max.)	200mVpp
	VOLTAGE TOLERANCE	±2.0%
	LINE REGULATION	±1.0%
	LOAD REGULATION	±2.0%
	SETUP,RISE TIME	500ms,250ms/230VAC 500ms,250ms/115ac at full load
INPUT	HOLD UP TIME (Typ.)	60ms / 230VAC 30ms / 115VAC at full load
	VOLTAGE RANGE	100-240VAC
	FREQUENCY RANGE	47~63Hz
	EFFICIENCY(Typ.)	85% full load
	POWER FACTOR	PF>0.95/115VAC at full load PF≥0.9 at 75 ~ 100% load, 115VAC / 230VAC
	AC CURRENT(at full load)	1.1A/115VAC 0.55A/230VAC
	INRUSH CURRENT (max.)	40A/230VAC
PROTECTION	LEAKAGE CURRENT	0.75mA/240VAC
	OVER CURRENT	95 ~ 102%
		Protection type : Constant current limiting, recovers automatically after fault condition is removed
	OVER VOLTAGE	52 ~ 64V
		Protection type : Shut down o/p voltage, re-power on to recover
	OVER TEMPERATURE	110°C±5°C(TSW1) detect on heatsink of power transistor
Protection type: Shut down o/p voltage, recovers automatically after temperature goes down		

ENVIRONMENT	WORKING TEMP.	-30 ~ +60
	WORKING HUMIDITY	20~90% 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	Design refer to UL1310 Class 2, TUV EN60950-1, EN61347-2-13, CAN/CSA C22.2 No. 223-M91, meet IP67
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25~70% RH
	EMI CONDUCTION & RADIATION	Compliance to EN55015, EN55022 (CISPR22) Class B
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C ( ≥75% load) ; EN61000-3-3
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN61547, light industry level (surge 4KV), criteria A
DIMENSION		221*69.8*45.3mm (L*W*H)

### Mechanical Specification:

