

RoHS



Operating Temperature : -30 ~ +55 [°C]
 Dimension : 211 x 69.8 x 45.3[mm]
 Built-in : Active PFC
 LED Driver : Constant Voltage
 Approvals / Marks :



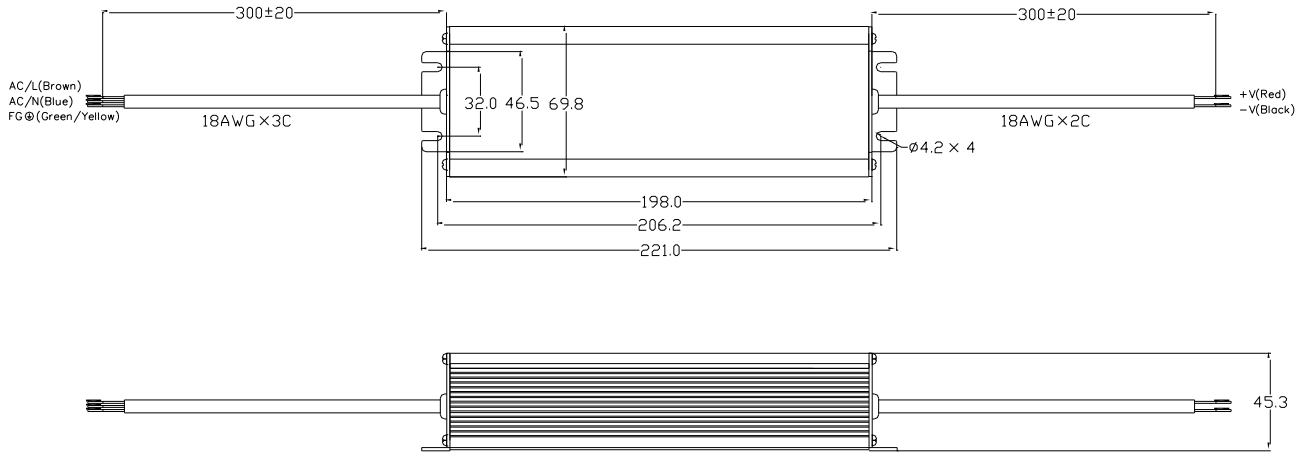
Features:

Constant voltage mode power supply - Suitable for LED lighting and moving sign applications
 Universal AC input / Fully encapsulated with IP67 (for indoor and outdoor use) Full range
 High reliability / Compliance to worldwide safety regulations for lighting
 100% full load burn-in test / Built in active Power Factor Correction (PFC) function.
 Protections: Over current / Over Voltage / Over Temperature

Specification:

		OUTPUT						
	Model	Voltage DC [V]	Loading [A]	Output Tol. [%]	Efficiency [%]	OVP [V]	Max. Power [W]	Ripple & Noise [mV] p-p
	HPCV-15012P	12	0~11.0	±3	85	13.5~16	132	150
INPUT	Voltage	(100 ~ 240)VAC						
	Frequency	(47 ~ 63)Hz						
	Current	1A/230VAC 2A/115VAC						
	Inrush Current max.	65A/230VAC @ cold start						
	Leakage current	<1mA/240VAC						
	Power Factor	PF>0.95/115VAC at full load PF≥0.9 at 75 ~ 100% load, 115VAC / 230VAC						
PROTECTION	Over current	95% ~ 108% Protection type : Constant current limiting, recovers automatically after fault condition is removed						
	Over Voltage	Protection type : Shut down o/p voltage, re-power on to recover						
	Protection class	UL1310 Class 2 power unit, pass LPS						
	Over temperature	90°±10 °C(TSW1) detect on heatsink of power transistor Protection type : Shut down o/p voltage, recovers automatically after temperature goes down						
	Short circuit	Hiccup mode, recovers automatically after fault condition is removed						
	No Load Operation							
OTHERS	Isolation Resistance	I/P-O/P:>100MΩ / 500VDC / 25 ~ 70% RH						
	Set up time	1200ms						
	Hold-up Time	60ms/230VAC at full load						
	MTBF Qualification							
	AC cable / DC cable							
	Rise time	80ms at full load						
	Line regulation	±1.0%						
	Load regulation	±2.0%						
ENVIRONMENT	Temperature	Operating: (-30 ~ +55)°C @full load / (-30 ~ +70)°C @ 60% load / Storage: (-40 ~ 80)°C						
	Humidity	Operating: (20 ~ +95)%RH / Storage: (10 ~ 95)%RH Non-condensing						
	Vibration	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
	Temp. Coefficient	±0.03%/°C (0~50°C)						
CERTIFICATION & SAFETY		Safety EN61347-1, EN61347-2-13 Immunity EN61547 Harmonic EN61000-3-2 Magnetic Emission EN55015 RoHS compliant CE mark / compliant UL standard design Pass LPS UL 1310 Class II power unit						
SAFETY & EMC	Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC						
	Safety standards	Design refer to UL1310 Class 2,TUV EN60950-1, EN61347-2-13, CAN/CSA C22.2 No. 223-M91, meet IP67						
	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN61547, light industry level (surge 4KV), criteria A						
	EMI conduction & radiation	Compliance to EN55015, EN55022 (CISPR22) Class B						
	Harmonic current	Compliance to EN61000-3-2 Class C (≥75% load) ; EN61000-3-3						
		HPCV-15012P						
WEIGHT	1pc	N.W.: 1087g G.W.: 1130g						
PACKING	Box	0.275 x 0.26 x 0.26 [m]						
		15pcs / 1box						
		G.W.: 17 kg / box						

Mechanical case and cable specification:



Block diagram:

