

# ACL-CC-20 series LED driver – IP67 max21W

Operating Temperature :	-10 ~ +50 [°C]
Dimension :	140 x 30 x 22 [mm]
LED Driver:	Constant Current
Built-in:	Active PFC
Approvals / Marks :	CE IP67



## Features:

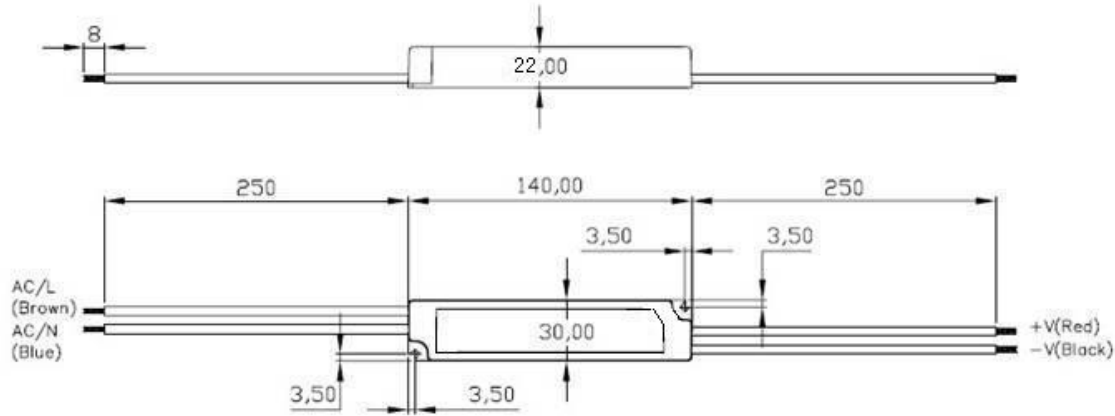
Built-in active PFC function
Constant current mode power supply - Suitable for LED lighting and moving sign applications
Universal AC input / Fully encapsulated with IP67 🌧️ (for indoor and outdoor use)
Small and compact size   UL1310 Class II power unit, pass LPS
Protections: Short circuit & Over current / 100% full load burn-in test

### Specification:

		OUTPUT							
	Model	Current [mA]	Output Tol. [%]	Voltage [V]	Voltage Range [V]	Efficiency [%]	For LED [pcs]	Max. Power [W]	Ripple & Noise [mV] p-p
	ACL-CC-20-350	350±3%	±3	48	9~48	80	3~13	16.8	200
	ACL-CC-20-700	700±3%	±3	30	3~30	80	-	21	200
INPUT	Voltage	(100 ~ 240)VAC							
	Frequency	(47 ~ 63)Hz							
	Current	0.4A/100VAC   0.2A/240VAC							
	Inrush Current max.	cold start 70A/240VAC - 35A/120VAC @ full load							
	Leakage current	0.25mA/240VAC							
PROTECTION	Over current	Above 105% rated output power. Protection type: Hiccup mode, recovers automatically after fault condition is removed.							
	Over Voltage	-							
	Protection class	UL1310 Class 2 power unit							
	Over temperature	Tj 140°C typically (IC1) Detect on main control IC   Protection type: Hiccup mode, recovers automatically after temperature goes down.							
	No Load Operation	-							
OTHERS	Isolation Resistance	I/P-O/P:>100MΩ / 500VDC / 25~70% RH							
	Set up time	500ms							
	Hold-up Time	50ms/230VAC							
	MTBF Qualification	30K hrs @ full load 25 °C; ambient temperature and 20k hrs @ full load 50 °C							
	AC cable / DC cable	-							
	Rise time	250ms							
	Line regulation	±1.0%							
	Burn in	100% full load burn-in test							
	PFC	Active							
Load regulation	±2.0%								
ENVIRONMENT	Temperature	Operating: (-10 ~ +50)°C / Storage: (-40 ~ 80)°C							
	Humidity	Operating: (20 ~ +90)%RH / Storage: (10 ~ 95)%RH Non-condensing							
	Vibration	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. 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							
SAFETY & EMC	Withstand voltage	I/P-O/P:3KVAC							
	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, light industry level, criteria A							
	EMI conduction & radiation	Compliance to EN55022 (CISPR22) Class B							
	Harmonic current	EN61000-3-2,-3							
WEIGHT	1pc	N.W.: 155g   G.W.: 167g							
PACKING	Box	0.35 x 0.29 x 0.23 [m]							
		100pcs / 1box							
		G.W.: 18 kg / box							

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## Mechanical case specification:



## Block diagram:

