



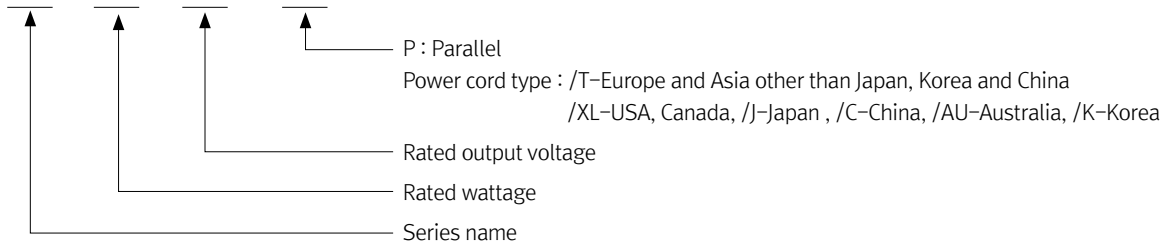
PRODUCT FEATURES

- LED Driver with 12way distributor and 1800mm powercord
- Input : 100~240VAC, 50/60 Hz
- Output: Max. 3.15A, DC24V, LED Lamp Max. 75W
- Life time: 40,000hrs (Min.) Half Load @25°C
- Electronic Safety Isolating LED Driver for DC24V LED
- Suitable for LED luminaire or appliance such as lighting installation or furniture
- Class II Protection against electric shock from direct and indirect contact
- Protections : short circuit / overload / overvoltage / over temperature
- Built in current sharing function (Max. 8 units)
- Built in active PFC function
- Less leakage current
- Cooling by free air convection

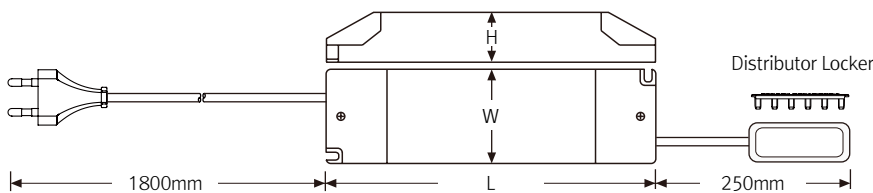
MODEL SELECTION KEY



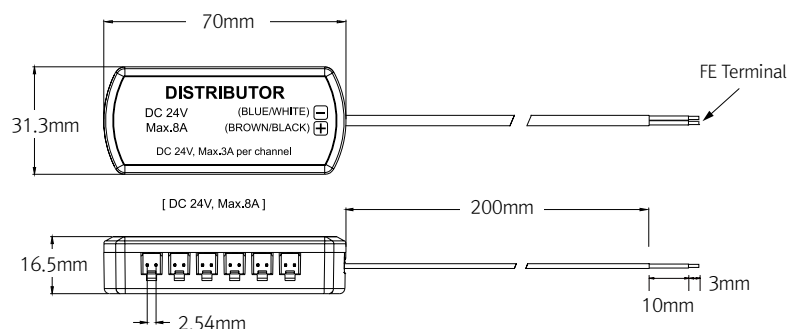
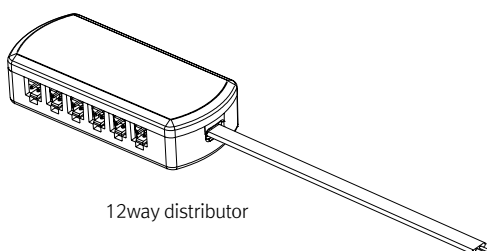
FLC - 75 - 24V - P/T



DIMENSION



PARALLEL LED DRIVER	Wattage (W)	Length (L)	Width (W)	Height (H)
FLC75-24V-P	75W	180mm	60mm	30mm



SPECIFICATION

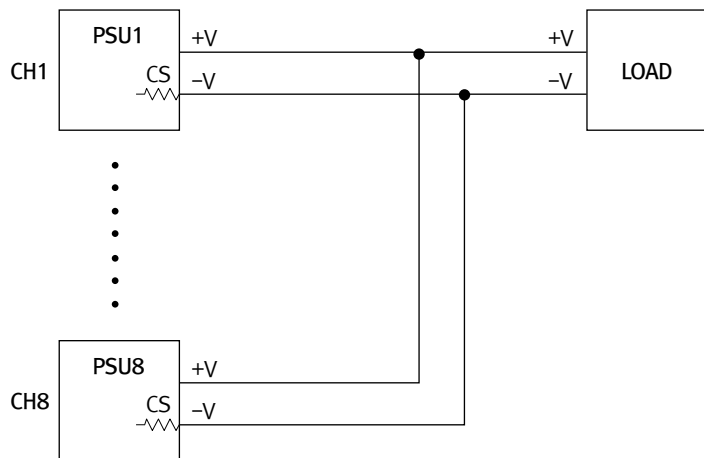
MODEL		FLC75-24V-P
OUTPUT	DC VOLTAGE	24V
	RATED CURRENT	3.15A
	MAX POWER	75W
	TRANSIENT RESPONSE	8 ms, full load to Half load, 230VAC Input
	DC OUTPUT WIRE	AWG #18, UL1007 2C or eqv
	RIPPLE & NOISE (max.) Note.2	240mV&300mV
	VOLTAGE RANGE	DC 22.8~25.2V
	LOAD REGULATION Note.3	+/- 1% Max
	LINE REGULATION	+/- 1% Max
	CONSTANT VOLTAGE (CV) MODE LOAD REGULATION	+/- 5% Max (Voltage Setting Adjustable via on-board pot: +5% / -5%)
	START-UP TIME	1 sec. Typical @start -up to full load, 230VAC input
	HOLD UP TIME (Typ.)	10ms @ full load, 230VAC input 47-63 Hz
INPUT	VOLTAGE RANGE Note.4	100~240VAC, 50/60Hz
	RATED CURRENT	1A max 100VAC / 0.5 Max. 230VAC
	RATED POWER	85W(100Vac) / 82W(230VAC)
	FREQUENCY RANGE	47-63 Hz
	POWER FACTOR (Typ.)	Min. 0.9 @ 100-240VAC, Full load
	THD	< 15% @ full load
	INRUSH CURRENT (Typ.)	60A@230VAC input, 25°C, cold start-up
	LEAKAGE CURRENT	0.075mA (100-240VAC)
PROTECTION	SHORT CIRCUIT	Hiccup-Mode, Auto-Recovery upon removal of short circuit condition.
	OVER CURRENT PROTECTION	110% Max
	OVER VOLTAGE	110% Max
	OVER TEMPERATURE	105°C Max, Hiccup-Mode, Auto-Recovery
ENVIRONMENT	OPERATING TEMP.	0 ~ 50°C(Refer to "Derating Curve")
	STORAGE TEMP.	-40 ~ +90°C, 5- 95% RH non-condensing
	EFFICIENCY(Typ)	230VAC input, Full Load, 89% Typ
	COOLING	Convection
	VIBRATION	1 ~ 200Hz, 2G 10min./1cycle, period for 30min. each along X, Y, Z axes
SAFETY & EMC (Note 6)	SAFETY STANDARDS	UL8750, UL1310
	SAFETY STANDARDS 2	UL8750, UL1910
	WEATHERABILITY	EN60529 IP 20
	WITHSTAND VOLTAGE	I/P-O/P, 3KVAC (IEC60950-1)
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25c / 70%RH
	EMC/RFI	CISPR-22 Class B FCC part 15 Class B EN 55015
ENVIRONMENT	MTBF	20,000Hr(Min) (Full load @ 25°C Ambient, Based on MIL-217F)
	DIMENSION	180*60*30mm (L*W*H)
	PACKING	0.39kg;30pcs/13.82kg/0.69CUFT
NOTE	<ol style="list-style-type: none"> All parameters Not specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &47uf parallel capacitor. Tolerance includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltages. Please check the derating curve for more details. The ambient temperature derating of 5/1000m is needed for operating altitude greater than 2000m(6500ft) CISPR-22 Class B FCC part 15 Class B EN 55015 	

MAXIMUM LOADING OF AUTOMATIC CIRCUIT BREAKERS

Automatic circuit breaker type	C10	C13	C16	C20	B10	B13	B16	B20	B20	
Installation ϕ	1.5mm ²	1.5mm ²	2.5mm ²	2.5mm ²	1.5mm ²	1.5mm ²	2.5mm ²	2.5mm ²	1max	time
FLC75-24V	12	16	20	24	6	8	10	12	60A	100us

Typical values for MCB from ABB series S200 as reference.
Actual values can differ due to used MCB types and installation environment.

FUNCTION MANUAL

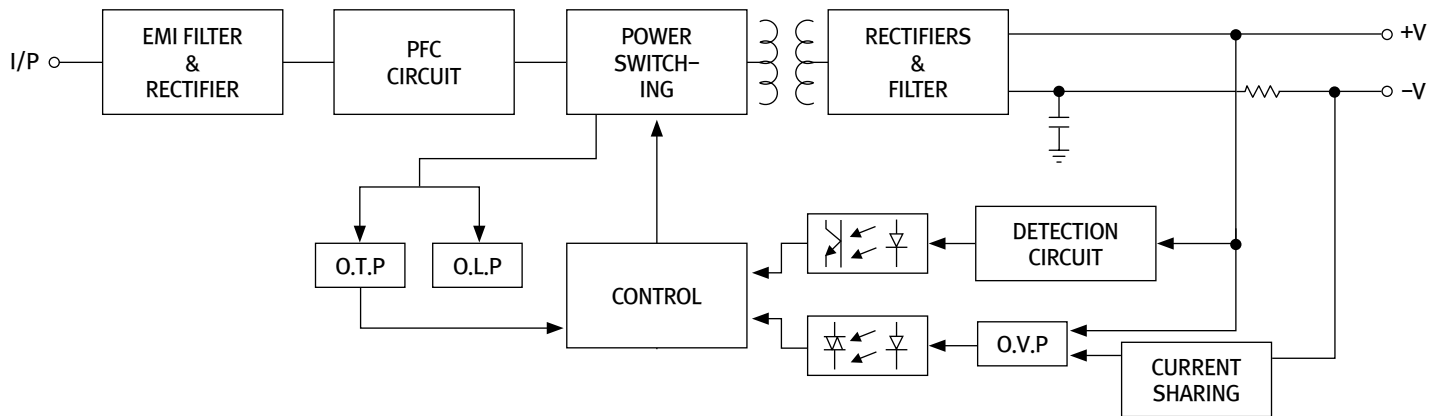


* Maximum Parallel Operation : 8pcs

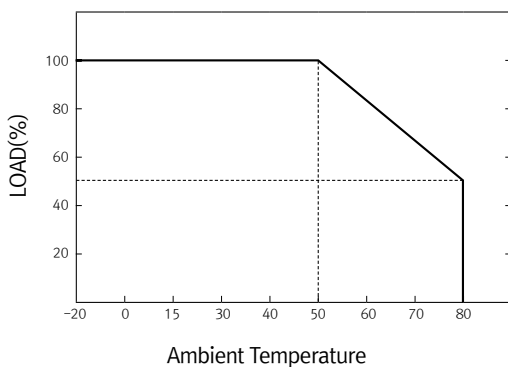
Parallel Operation Caution

In the figure left, the output voltage PSU1~PSU8 must be different. In case of overcurrent, the protection circuit (CC Mode) operates. When the voltage drops, current flows from the higher PSU. Therefore, when one power source reaches the maximum current (75Watt), it is operated in CC Mode, which sets the over-current setting to the rated current, to limit the current. The output wiring must be of the same length and the same thickness to fit the current BALANCE of the parallel operation

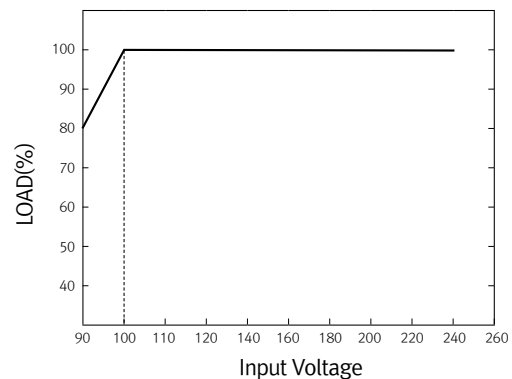
BLOCK DIAGRAM



DERATING CURVE



STATIC CHARACTERISTIC



INSTALLATION

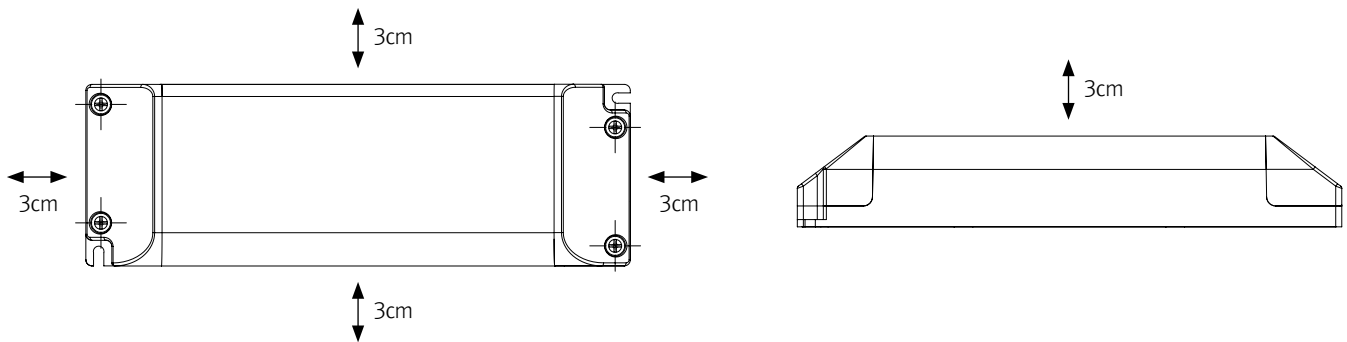
Installation Method of Natural Air Cooling

It radiates heat into radiation and convection when power is turned on in the installation space. Mostly it radiates heat into convection. Please hold the cracks enough where the air is flowing. The air doesn't flow when it contacts with heating elements since air has viscous characteristic. The air heats atmosphere nearby itself by its own thermal conduction, which makes air convection a few millimeters away from the heating element. Make an air inlet and outlet on the outside of power supply so that heated air inside does not accumulate. Depending on the direction of the installation of the power supply, the temperature of the internal power element changes and the usable temperature changes. Bind the wires on the input and output side separately to prevent the SURGE voltage or NOISE, coming from the input, from being mixed into the output. Also, bind the wires on the input and output side separately to prevent the NOISE, generated from the load and power, is not to be transmitted to input. Make sure that the output wiring is thick and short.

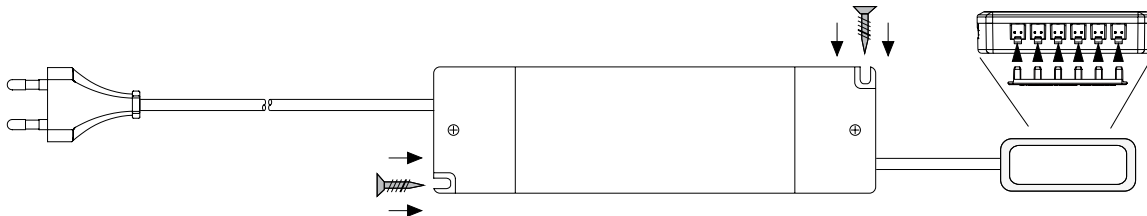
1. Heat dissipation

* At least 3cm installation distance around the PSU should be kept as below:

* Operation Temperature: 0~50°C (Refer to 'Derating Curve')



2. Mounting arrangement



3. Operation

