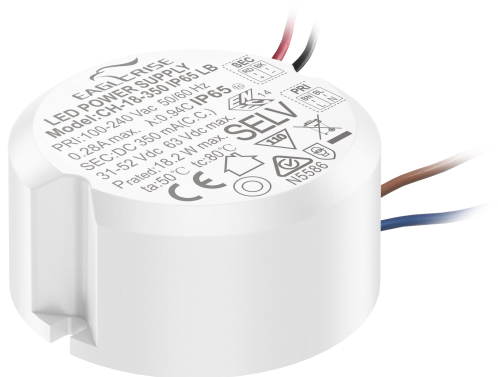


18W Constant Current – IP65



■ Approve



Features

- Class II, SELV, Built-in
- Input Voltage 100-240VAC
- Protections: SCP/OLP/OVP
- Power Factor 0.94C
- Efficiency $\geq 86\%$
- IP65 Ingress protection
- 5 years warranty

Applications

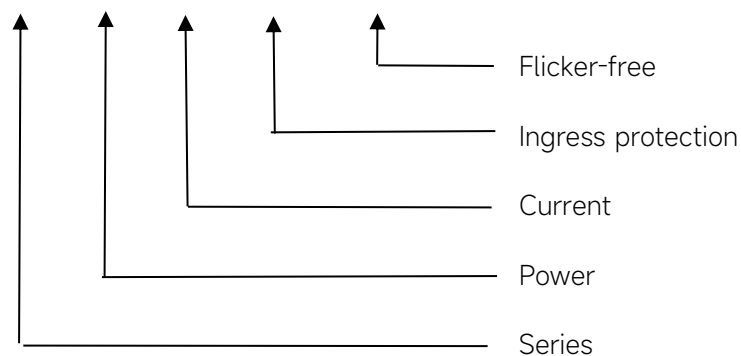
- Outdoor-Wall light
- Lawn light

◆ Description

CH-18-XXX IP65 LB is an 18W constant current LED driver that operates from 90-264Vac input with 300 to 700mA output current. With it's compact dimensions from $\Phi 55 \times 26\text{mm}$ it is easy to integrate in Outdoor-Wall light lights and Lawn lights. To ensure trouble-free operation, protection is provided against output short circuit and over Load

◆ Model code

CH-18-XXX IP65 LB



◆ Specification

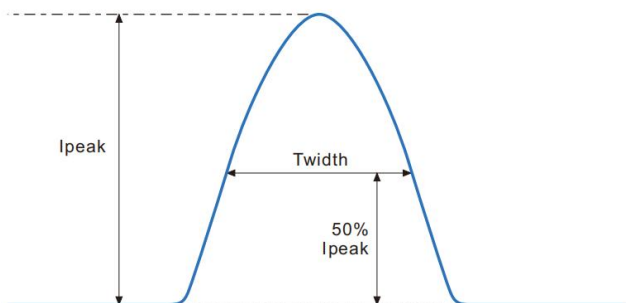
Output	Constant Current	300mA	350mA	500mA	...	700mA
	Voltage Range	36-60VDC	31-52VDC	21.5-36VDC	...	15.5-26VDC
	Unload voltage Max.	75VDC	63VDC	46VDC	...	35VDC
	Current Accuracy	±5%				
	Output HF current ripple(≥1KHz)	±5%				
	Output LF current ripple(≤120Hz)	±5%				
	SVM	≤0.4				
	Pst	≤1				
	Efficiency(Typ.)	≥86%				
Input	Rated input voltage	100-240VAC				
	Range of input voltage	90-264VAC				
	Frequency(Hz)	50/60 Hz				
	Displacement factor	≥0.9				
	Power Factor	0.94C				
	Input Current max	0.28A				
	Start-up time	< 0.5S				
	No Load Power	≤0.5W				
	THD (Typ.)	< 10%				
Protection	Over Load Protection	103-120%				
		YES/Auto Resume				
	Over Voltage Protection	> 75VDC	> 63VDC	> 46VDC	...	> 35VDC
		YES/Auto Resume				
	Short circuit Protection	YES/Auto Resume				
Environment	Operating Temperature	-20°C~~+50°C				
	Humidity	20%-90%RH				
	Tc	80°C				
	Storage Temperature	-25°C~~+60°C				
	Life time	> 50000h@Tc=75°C,230VAC				
Surface	Dimension	Φ55X26(DXH)mm				
standards	EN 61347-1; EN61347-2-13; EN62384; EN55015; EN61000-3-2 ; EN61000-3-3; EN 61547;					
Others	ErP	EU 2019/2020				
	RoHS	RoHS (2011/65/EU) (EU)2015/863				
Note	1.All parameters NOT specially mentioned are measured at 240VAC input , full load and 25°C of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor.					

◆ Model list

NO.	Model number	Output			Max. Prated (W)
		Constant current (mA)	Normal working voltage (VDC)	No load working voltage (VDC)	
1	CH-18-300 IP65 LB	300	36-60	75	18
2	CH-18-350 IP65 LB	350	31-52	63	18.2
3	CH-18-400 IP65 LB	400	27-45	55	18
4	CH-18-450 IP65 LB	450	24-40	50	18
5	CH-18-500 IP65 LB	500	21.5-36	46	18
6	CH-18-550 IP65 LB	550	19.5-33	43	18.2
7	CH-18-600 IP65 LB	600	18-30	40	18
8	CH-18-650 IP65 LB	650	16.5-28	38	18.2
9	CH-18-700 IP65 LB	700	15.5-26	35	18.2

◆ Inrush Current

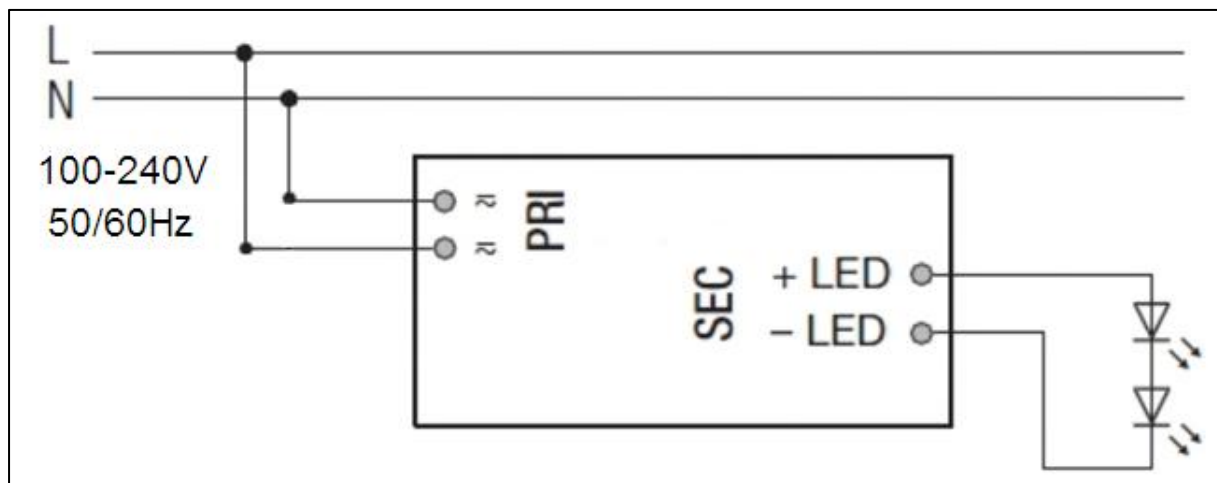
I_{peak}	Twidth	B10	B16	B20	C10	C16	C20
12.8A	104μs	28pcs	45pcs	57pcs	28pcs	45pcs	57pcs



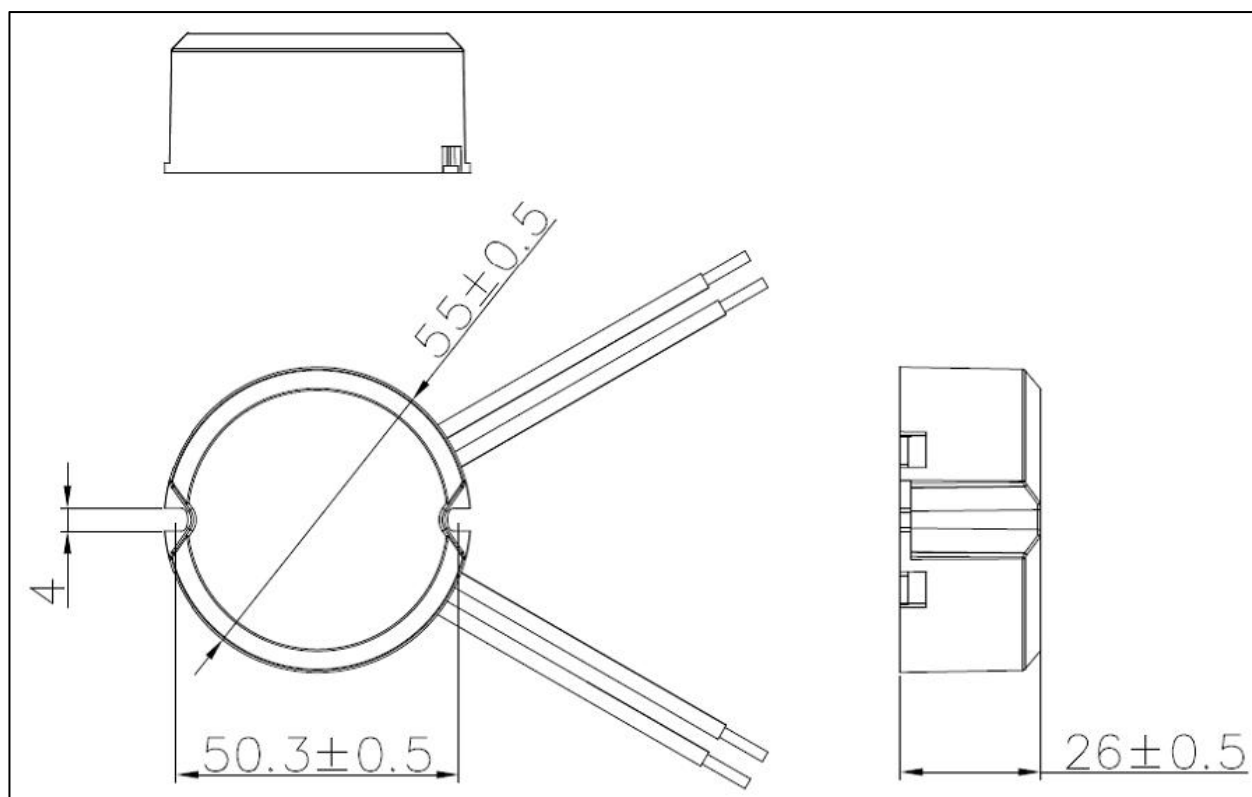
Remarks:

1. The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.
2. Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.

◆ Wiring diagram

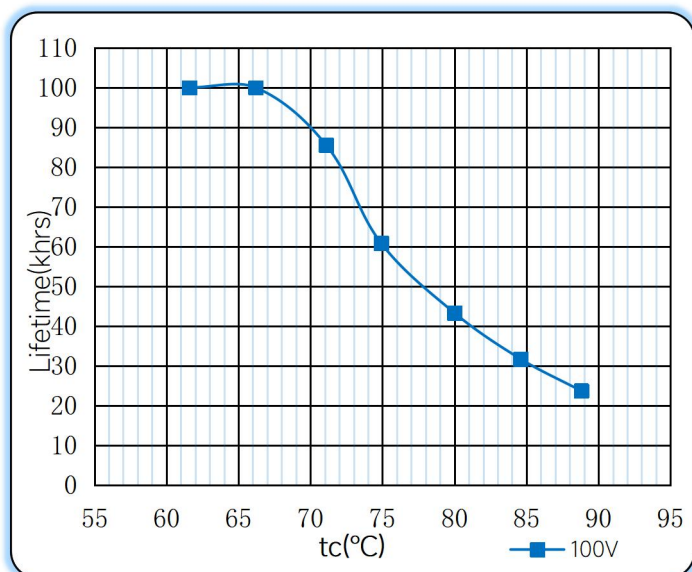


◆ 2D diagram

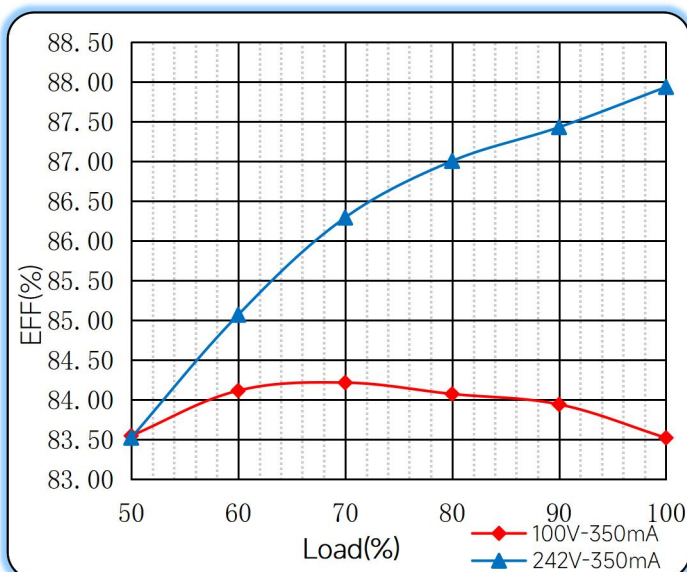


◆ Curve for CH-18-350 IP65 LB, $I_o=350mA$

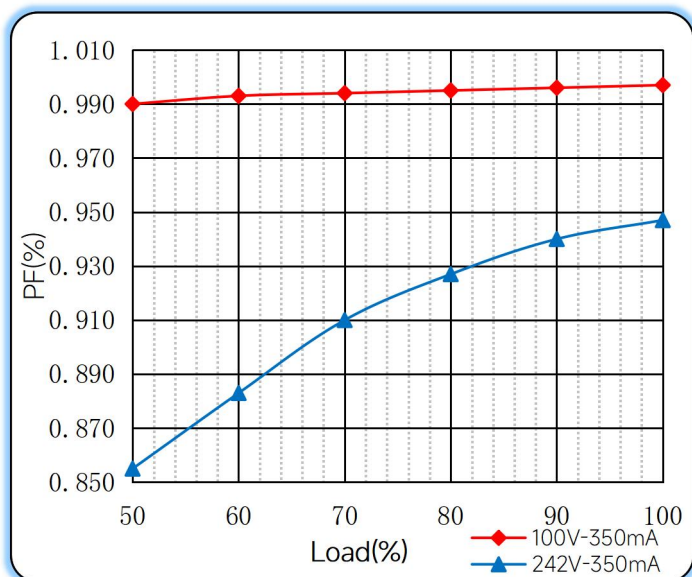
Lifetime vs. Temperature Curve



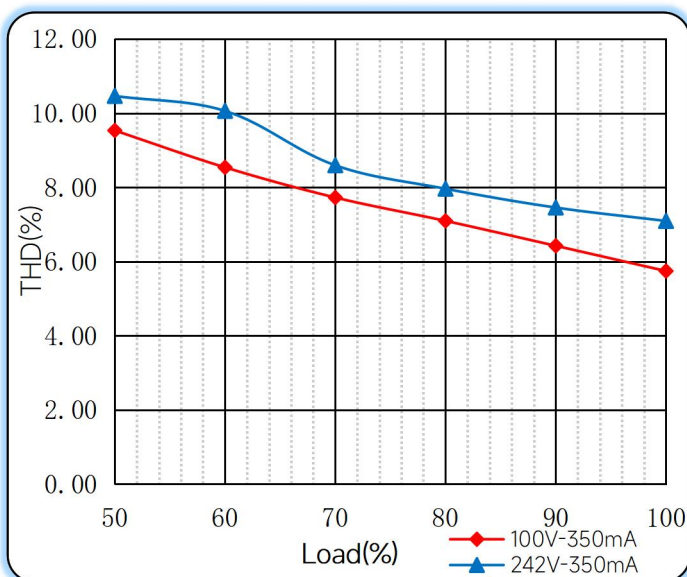
Efficiency vs. Load



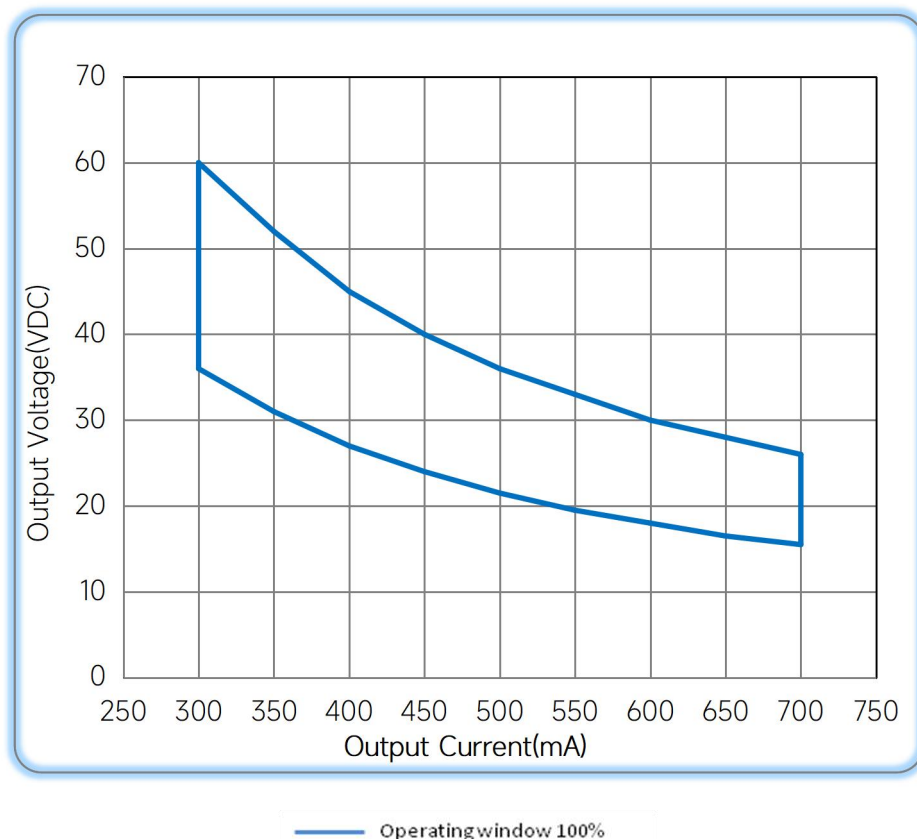
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/05/15

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Manual