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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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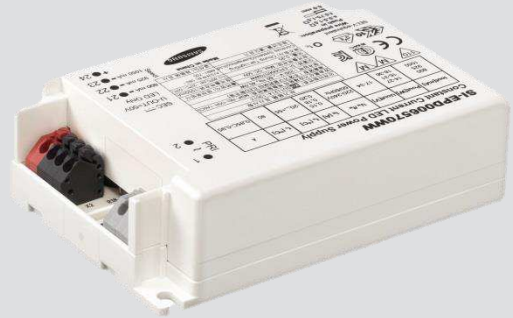
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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



LED Driver

Indoor 35 W Non-Dimmable SI-EPD006570WW



SELV Constant Current LED Driver Easy Current Selection – No Dimming

Features & Benefits

- Output Currents: 800 / 925 / 1050 mA (fixed, selectable)
- Output Voltage Range: 17 ~ 34 V (SELV equivalent)
- Output Power Range: 14 ~ 36 W
- Input Voltage: 220 ~ 240 Vac 50/60 Hz
- Protections: Overload, No Load, Short Circuit, Over Temperature, Over Voltage,
- t_a Range: -20 ~ +55 °C
- Expected Lifetime: 50,000 hours at $t_c = 70$ °C
- Long lasting & high reliability
- Extra small compact housing
- Suitable for Class I and II luminaires

Applications

- Downlights, Spotlights and other Indoor Lighting Applications
- Office – Industry – Shop

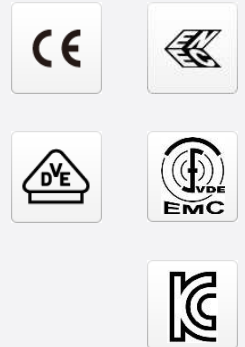


Table of Contents

1.	Characteristics	-----	3
2.	Typical Characteristics Graphs	-----	5
3.	Protection	-----	7
4.	Outline Drawing & Dimension	-----	8
5.	Label Structure	-----	9
6.	Packing Structure	-----	10
7.	Precautions in Handling & Use	-----	10

1. Characteristics

Article	Symbol	Specification			Unit	Note	
		Min.	Typ.	Max.			
INPUT SPECIFICATIONS							
Nominal Voltage	V _{in}	220 ~ 240			V _{ac}		
Nominal Frequency	f _{in}	50 / 60			Hz		
AC Voltage Range		198		264	V _{ac}		
DC Voltage Range		n/a			V		
Maximum Voltage				275	V _{ac}	2 hours max.	
Nominal Current	I _{in}	200			mA	At 230 V, 36 W load (see section 2e)	
Total Harmonic Distortion	THD				20	%	At full load, 230 V, 50 Hz (see graph)
Power Factor	PF	0.95				-	At full load, 230 V, 50 Hz (see graph)
Efficiency	η	87				%	At full load, 230 V, 50 Hz (see graph)
Power Losses					5.5	W	At 230 V, 1050 mA (see section 2e)
No-load Power		n/a			W	Load switching on output side is safe but not permitted	
Stand-by Power		n/a			W	Unit is not dimmable/controllable	
Protection Class		II			-	Suitable for class I and II luminaires	
In-rush Current					16	A _{pk}	t _{width} = 100 μs typ. (at 50% I _{pk})
Units per Circuit Breaker					B16: 25 B10: 15	-	I _{max} = 16 A, t _{width} = 100 μs
OUTPUT SPECIFICATIONS							
Nominal Voltage	V _o	17 ~ 34			V _{dc}	With load	
Max. Voltage					50	V _{dc}	Open circuit, No-load protection
Nominal Current	I _o	800 / 925 / 1050			mA	±5 %	
Current Ripple		±30			%	Ripple / average @ 100 Hz	
Nominal Power	P _o	14 ~ 36	36	W			See section 2e
Galvanic Isolation		SELV-equivalent					Output to mains – Touch current < 0.7 mA
Touch Current					0.7	mA	According to EN 60598-1 annex G and EN 61347-2-13 annex A

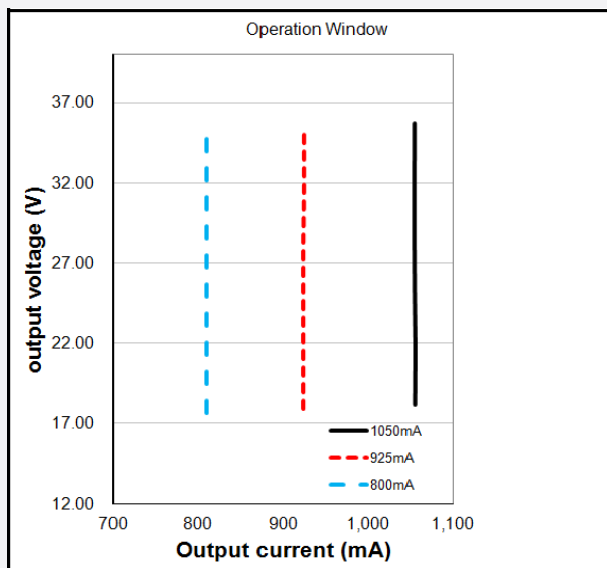
Article	Symbol	Specification			Unit	Note
		Min.	Typ.	Max.		
DIMMING SPECIFICATIONS						
Dimming Control			n/a			Unit is not dimmable
ENVIRONMENTAL SPECIFICATIONS						
Ambient Temperature	t_a	-20		55	°C	
Case Temperature	t_c			80	°C	Measured at t_c point as indicated on the product label
Case Temperature in fault condition				110	°C	
Storage Temperature	t_s	-25		75	°C	Cool down before operating
Relative Humidity		5		85	%	Not condensing
Surge Transient Protection	L / N			±1	kV	According to EN 61547-5.7
IP Rating			IP20		-	Suitable for indoor environment
Mains Switching cycles		100,000			-	
Expected Lifetime		35,000			h	$t_c = 80\text{ °C}$, 10 % failure rate (14 h on / 10 h standby per day)
		50,000			h	$t_c = 70\text{ °C}$, 10 % failure rate (14 h on / 10 h standby per day)
Dimensions	L x W x H		103 x 67 x 29.5		mm	
Net Weight			165		g	

Note:

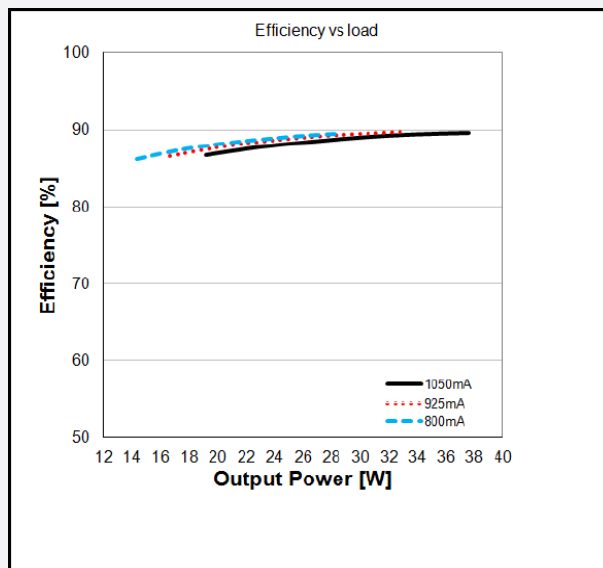
Standards: EN 61347-1, EN 61347-2-13, EN 55015, EN 61547, EN 61000-3-2, EN 62384

2. Typical Characteristics Graphs

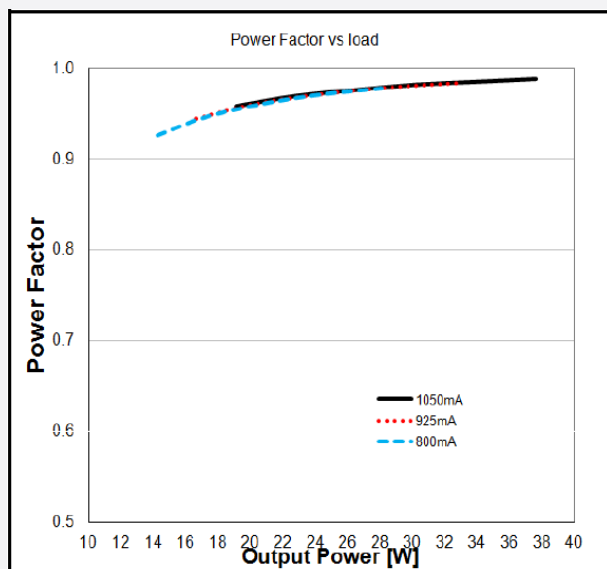
a) Operating Window



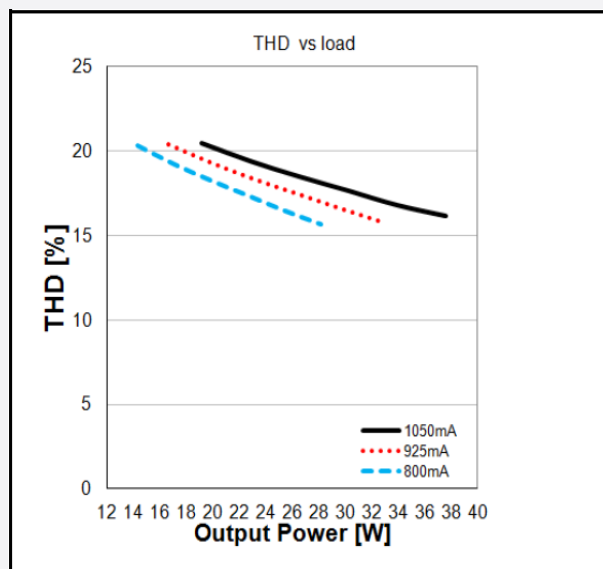
b) Efficiency vs. Load



c) Power Factor vs. Load



d) Total Harmonic Distortion vs. Load



e) Typical Output / Input

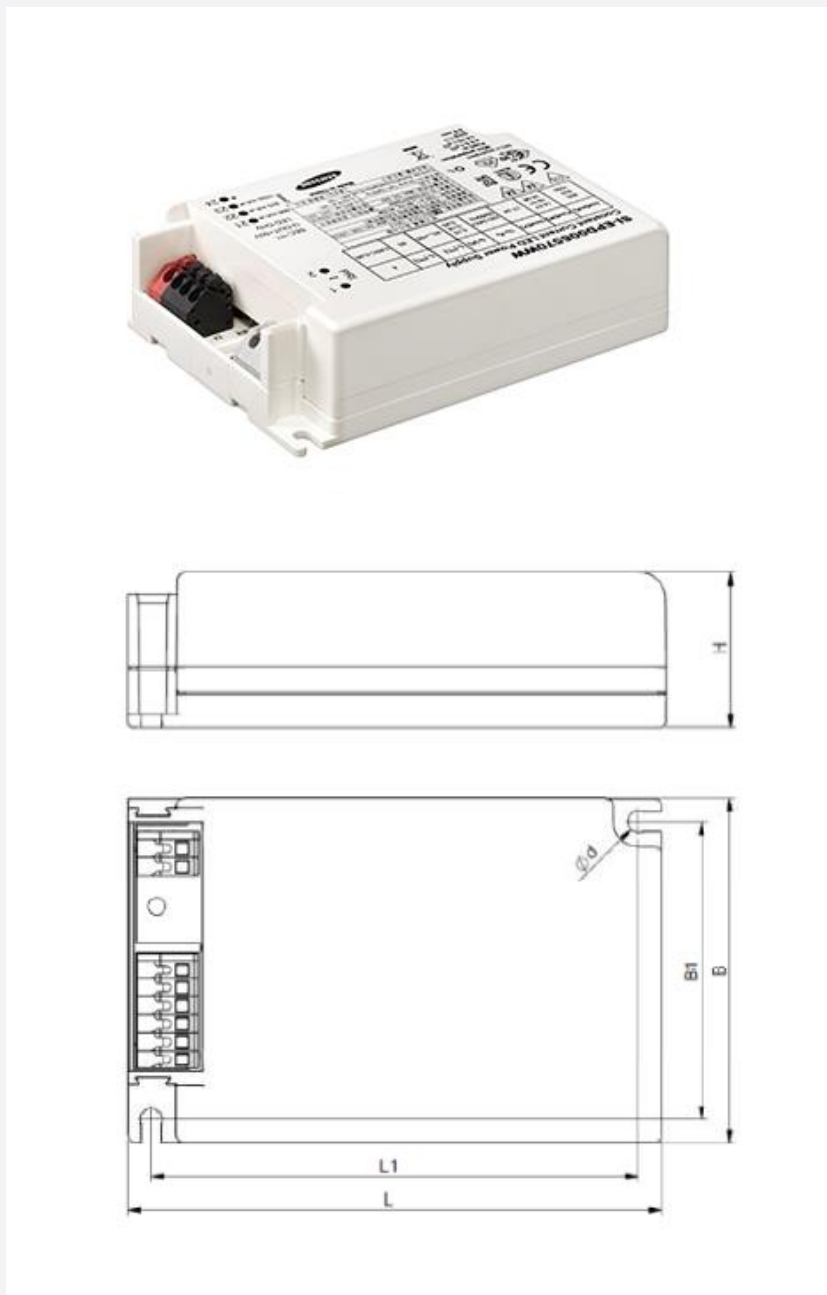
Output / Input Rating	Unit	Output Current Setting (mA)		
		800	925	1050
Output Voltage, Min.	V	17	17	17
Output Voltage, Max.	V	34	34	34
Output Power, Min.	W	14	16	18
Output Power, Max.	W	27	31	36
Power Loss Max. (@ 230 V)	W	4	4.7	5.5
Line Input Power (@ 230 V)	W	31	35.7	41.5
Line Input Current (@ 230 V)	mA	150	180	200

3. Protection

- **Input over voltage protection**
Mains up to 275 Vac for two hours maximum.
- **Output short circuit protection**
Automatic and reversible.
- **Output overload protection**
Automatic and reversible.
- **Output over voltage protection**
Output voltage is limited to below 50 V.
- **No load operation**
Available.
- **Over temperature protection**
Automatic and reversible.
- **Load hot plug protection**
Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.
- **Output under voltage protection**
n/a

4. Outline Drawing & Dimension

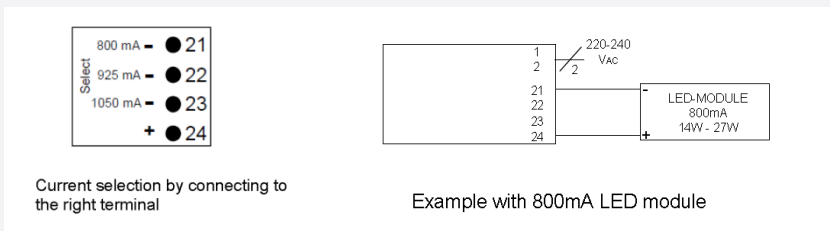
a) Dimension



L	L1	B	B1	H	Unit
103	94	67	58	29.5	mm

Housing material: plastic, white

b) Wiring Diagram



- Connectors type (input and output): Push-in terminals
- Wire cross-section: solid: 0.5 - 1.5 mm² flexible: 0.75 - 1.5 mm²
- Wire peeling length: 8 - 9 mm
- Load wire length: Max. 2 m

5. Label Structure

SI-EPD006570WW
Constant Current LED Power Supply

Iout[mA]	Pout[W]	Uout[V]	U _N / f _N	I _N [A]	t _a [°C]	t _c [°C]	λ
800	14-27	17-34	220-240V 50/60Hz	0.15	-20...+55	80	0.85C-0.95
925	16-31			0.18			
1050	18-36			0.20			

전기용품 표시사항
 안전인증번호: KSU11214-13012
 방송통신기자재등의 적합등록번호: MSIP-REI-OSR-1A0CS
 제품명칭: 조명기구용컨버터 (LED램프용)
 정격입력: 220 V~, 60 Hz, 40.5W
 모델명: SI-EPD006570WW 출력방식: 정전류방식
 정격출력전압: Max. DC 50V 정격출력전류: 1050mA
 역률: 0.95 Tc: 80°C, ta: -20°C~55°C
 제조회사: Chung Tak Lighting Controls System(Guangzhou)Ltd A/S연락처: 080-4891-700
 제조년월: 별도표기 결선도: 제품에 표시

110, M, M, CE, EMC, KC, ENEC, DVE, SELV-equivalent, Wire preparation: Push in s:0.5-1.5 f:0.75-1.5 8-9 mm, Made in China, SAMSUNG

PRI ~ 1, 2

SEC U-OUT=50V LED Only

Select 800 mA - ● 21, 925 mA - ● 22, 1050 mA - ● 23, + ● 24

6. Packing Structure

Packing material	Max. quantity (pcs)
Outer Box	20

7. Precautions in Handling & Use

- 1) To prevent the LED Driver from any defect, please handle and store it with care
 - Do not drop or give shock
 - Do not store in very humid location or at extreme temperature
 - Do not open or disassemble the product
- 2) Static electricity or surge voltage may damage the components inside LED Driver, as such please observe proper anti-electrostatic working process
 - People handling the Driver should be well grounded (e.g. using ESD wrist band) and wear anti-static working clothes and gloves
 - All related devices and instruments in the production line should be well grounded (e.g. working table, measuring equipment, assembly jigs)
- 3) Observe the correct polarity of output terminal
- 4) Avoid input voltage exceeds the maximum rating, which will cause damage to the circuit and result in malfunction

Legal and additional information.

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