



LED Driver

Für jede Leuchte den richtige Driver

Qualität steht an erster Stelle

CertaDrive

CertaDrive 15W 0.35A 42V I 230V

May 12, 2014



Affordable and reliable LED Drivers

Affordable LED Driver range offering Philips reliability. The CertaDrive range is compatible with COB and mid-power LEDs from any LED manufacturer.

Benefits

- Driver design based on Philips;' experience and knowledge of conventional fluorescent and HID technologies. Various power wattage Drivers that are related to the lumen packages/applications – Fixed output Drivers. Independent-version housing design for stand-alone installations

Features

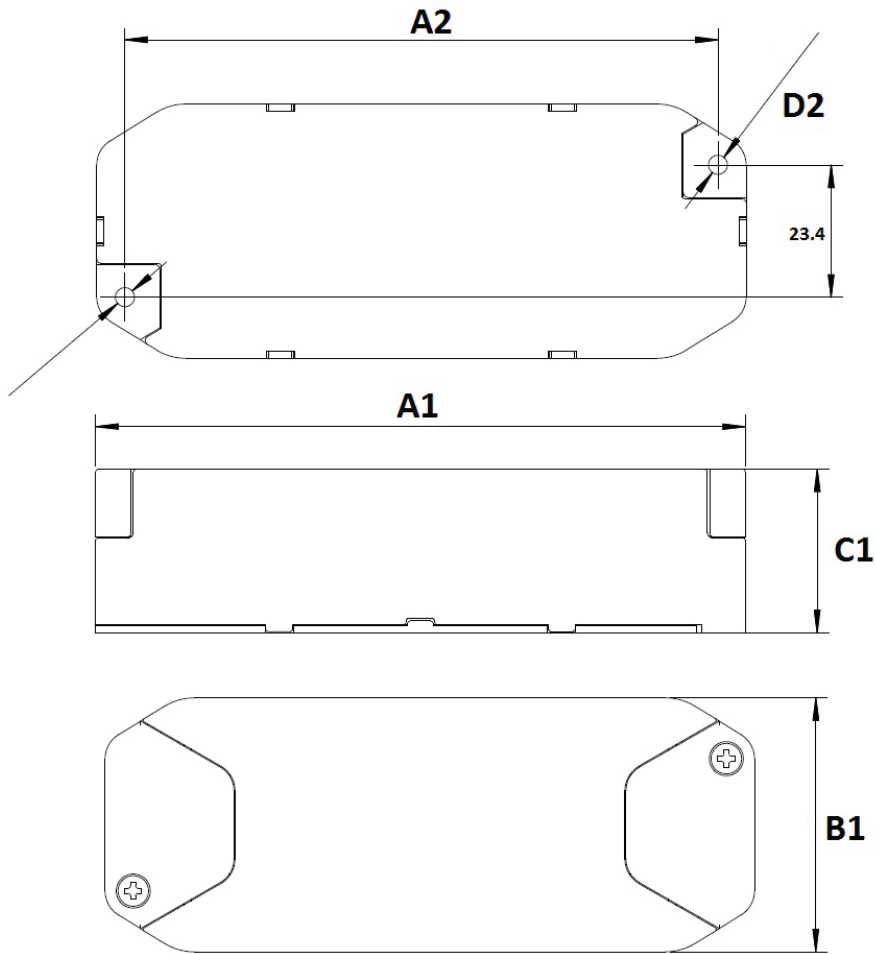
- High reliability
- Luminaire design flexibility to keep stable/constant
- lumen output and light quality levels
- Fast Time to Market
- One supplier for professional general lighting LED Drivers
- Affordable LED Drivers

Applications

- Public buildings (airports, cinemas, theaters, exhibition halls...)
- Retail (supermarkets, shops...)
- Office

Dimensions and weight

Specification item	Value	Unit	Condition
Length (A1)	115	mm	
Width (B1)	45	mm	
Height (C1)	29	mm	
Fixing hole diameter (D1)	3.4	mm	
Fixing hole distance (A2)	105	mm	
Weight	70	gram	



Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	+0...+50	°C	
Tcase-max	75	°C	Maximum temperature measured at T _c -point
Tcase-life	65	°C	Measured at T _c -point
Maximum housing temperature	130	°C	In case of a failure
Relative humidity	10...90	%	Non-condensing

May 12, 2014
CertaDrive 15W 0.35A 42V I 230V

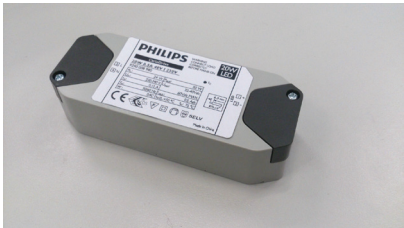
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CertaDrive

CertaDrive 20W 0.5A 40V I 230V

May 12, 2014



Affordable and reliable LED Drivers

Affordable LED Driver range offering Philips reliability. The CertaDrive range is compatible with COB and mid-power LEDs from any LED manufacturer.

Benefits

- Driver design based on Philips;’ experience and knowledge of conventional fluorescent and HID technologies. Various power wattage Drivers that are related to the lumen packages/applications – Fixed output Drivers. Independent-version housing design for stand-alone installations

Features

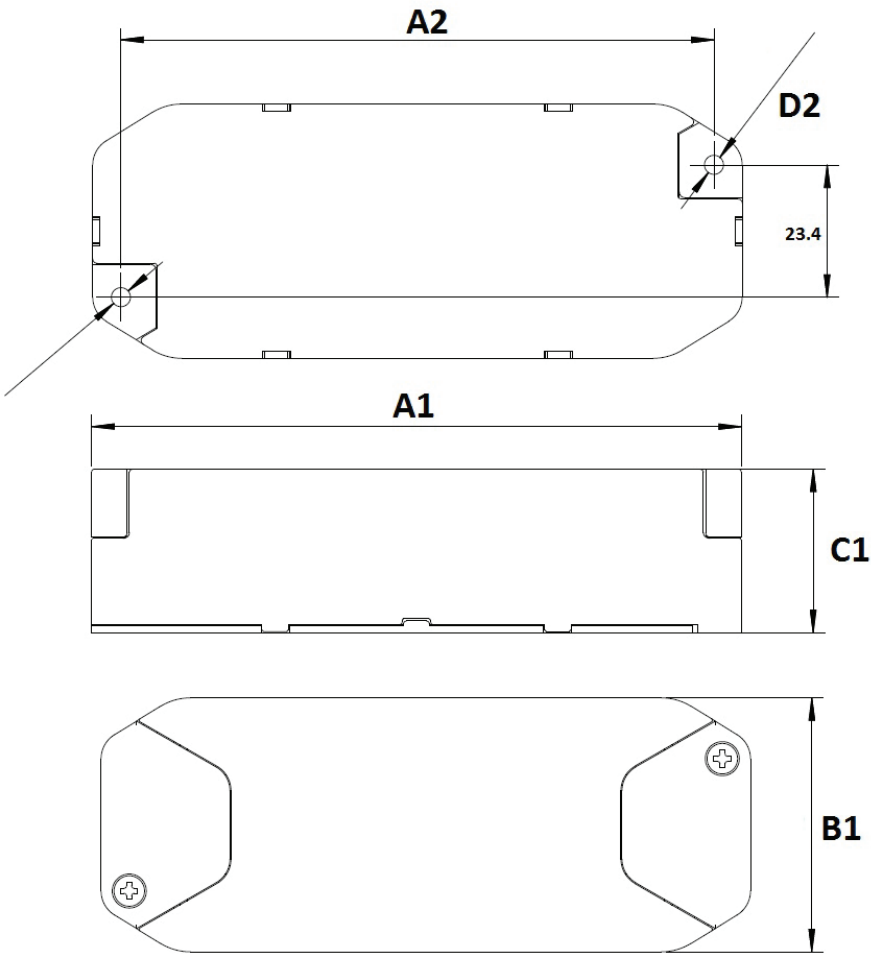
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Applications

- Public buildings (airports, cinemas, theaters, exhibition halls...)
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- Office

Dimensions and weight

Specification item	Value	Unit	Condition
Length (A1)	115	mm	
Width (B1)	45	mm	
Height (C1)	29	mm	
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Weight	70	gram	



Operational temperatures and humidity

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Ambient temperature	+0...+50	°C	
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Maximum housing temperature	130	°C	In case of a failure
Relative humidity	10...90	%	Non-condensing

May 12, 2014
CertaDrive 20W 0.5A 40V I 230V

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CertaDrive

CertaDrive 30W 0.7A 42V | 230V

July 31, 2014



Affordable and reliable LED Drivers

Affordable LED Driver range offering Philips reliability. The CertaDrive range is compatible with COB and mid-power LEDs from any LED manufacturer.

Benefits

- Driver design based on Philips' experience and knowledge of conventional fluorescent and HID technologies
- Various power wattage Drivers that are related to the lumen packages/applications
- Fixed output Drivers
- Independent-version housing design for stand-alone installations

Features

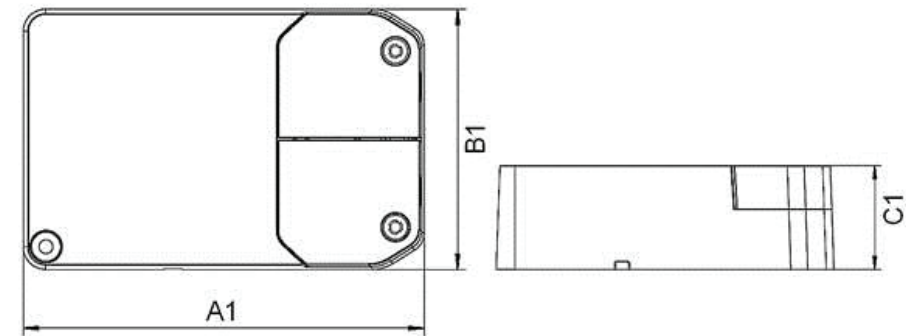
- High reliability
- Luminaire design flexibility to keep stable/constant
- Lumen output and light quality levels
- Fast Time to Market
- One supplier for professional general lighting LED Drivers
- Affordable LED Drivers

Applications

- Public buildings (airports, cinemas, theaters, exhibition halls)
- Retail (supermarkets, shops)
- Office

Dimensions and weight

Specification item	Value	Unit	Condition
Length (A1)	105	mm	
Width (B1)	68	mm	
Height (C1)	32	mm	
Fixing hole diameter (D1)	3.6	mm	
Fixing hole distance (A2)	87	mm	
Weight	129	gram	



Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	+0...+50	°C	
Tcase-max	75	°C	Maximum temperature measured at T _c -point
Tcase-life	65	°C	Measured at T _c -point
Maximum housing temperature	130	°C	In case of a failure
Relative humidity	10...90	%	Non-condensing

Storage temperature and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-25...+85	°C	
Relative humidity	5...95	%	Non-condensing

Lifetime

Specification item	Value	Unit	Condition
Driver lifetime	30,000	hours	Measured temperature at T _c -point is T _{case} -life. Maximum failures = 10%

Programmable features

Specification item	Value	Remark	Condition
Set output current (AOC)	No	See Design-in guide. Default output current: 0.7 A	
LED module temperature derating (MTP)	No		
Constant Lumen Over Lifetime (CLO)	No		
DC emergency dimming (DCemDIM)	No		Current output decreased to 15%
Corridor mode	No		
Energy metering	No		
Diagnostics	No		

July 31, 2014
CertaDrive 30W 0.7A 42V | 230V

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PHILIPS

CertaDrive

CertaDrive 40W 1.05A 38V I 230V

July 31, 2014



Affordable and reliable LED Drivers

Affordable LED Driver range offering Philips reliability. The CertaDrive range is compatible with COB and mid-power LEDs from any LED manufacturer.

Benefits

- Driver design based on Philips' experience and knowledge of conventional fluorescent and HID technologies
- Various power wattage Drivers that are related to the lumen packages/applications
- Fixed output Drivers
- Independent-version housing design for stand-alone installations

Features

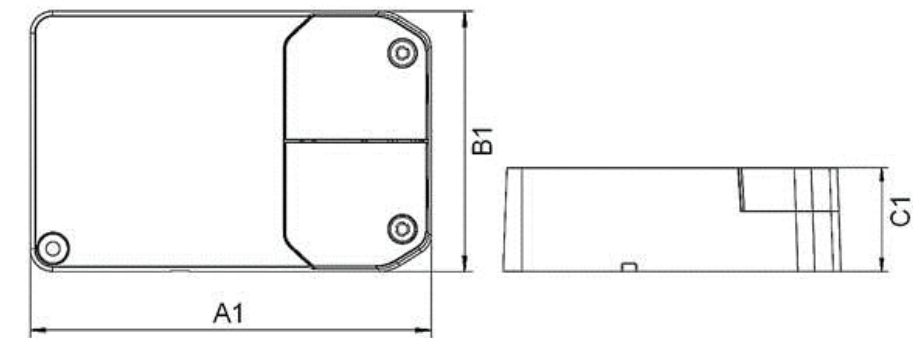
- High reliability
- Luminaire design flexibility to keep stable/constant
- Lumen output and light quality levels
- Fast Time to Market
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- Affordable LED Drivers

Applications

- Public buildings (airports, cinemas, theaters, exhibition halls)
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Dimensions and weight

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Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	+0...+45	°C	
Tcase-max	75	°C	Maximum temperature measured at T _c -point
Tcase-life	65	°C	Measured at T _c -point
Maximum housing temperature	130	°C	In case of a failure
Relative humidity	10...90	%	Non-condensing

Storage temperature and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-25...+85	°C	
Relative humidity	5...95	%	Non-condensing

Lifetime

Specification item	Value	Unit	Condition
Driver lifetime	30,000	hours	Measured temperature at T _c -point is T _{case} -life. Maximum failures = 10%

Programmable features

Specification item	Value	Remark	Condition
Set output current (AOC)	No	See Design-in guide. Default output current: 1.05 A	
LED module temperature derating (MTP)	No		
Constant Lumen Over Lifetime (CLO)	No		
DC emergency dimming (DCemDIM)	No		Current output decreased to 15%
Corridor mode	No		
Energy metering	No		
Diagnostics	No		

July 31, 2014
CertaDrive 40W 1.05A 38V I 230V

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PHILIPS



25W Multiple-Stage Output Current LED Power Supply **LCM-25DA series**



■ Features

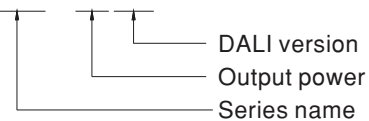
- Output current level selectable by DIP S.W.
- 180~277VAC input only
- Built-in active PFC function
- Protections: Short circuit / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- Class II power unit, no FG
- Built-in DALI interface and push dimming function
- IP20 design
- Logarithm or linear dimming curve selectable (Meet IEC62386-207)
- No load power consumption <0.5W(Note.7)
- Power supplies synchronization function up to 10 units
- 3 years warranty

■ Description

LCM-25DA is a 25W LED power supply that one single unit supplies multiple current levels, 350mA/ 500mA/600mA/700mA/900mA/1050mA. The current levels are able to be easily switched by adjusting the built-in DIP switch. LCM-25DA also provides the dimming function that is controlled by push dimming or DALI signal. Moreover, the synchronization design allows the dimming for up to 10 units of LCM-25DA to be controlled simultaneously.

■ Model Encoding

LCM - 25DA



■ Applications

- Indoor LED lighting
- Office LED lighting
- LED decorative lighting

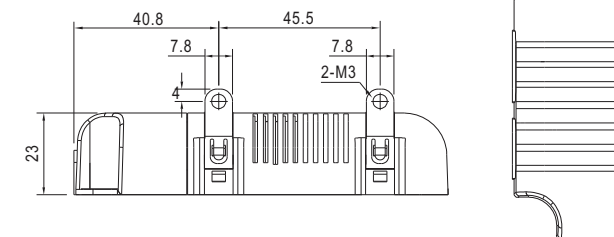
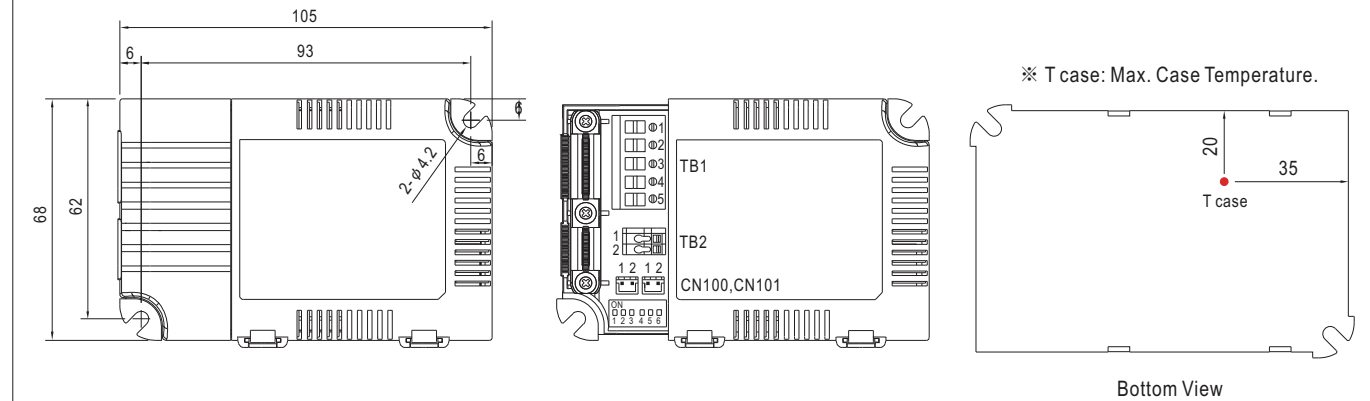
File Name:LCM-25DA-SPEC 2014-05-29



25W Multiple-Stage Output Current LED Power Supply **LCM-25DA series**

■ Mechanical Specification

Case No.LCM-25 Unit:mm



Terminal Pin No. Assignment(TB2)

Pin No.	Assignment
1	+Vo
2	-Vo

SYN. Connector(CN100/CN101):JST B2B-PH-KL or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	-	JST PHR-2 or equivalent	JST SPH-002T-P0.5S or equivalent
2	+		

Terminal Pin No. Assignment(TB1)

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DA+
2	AC/N	5	DA-
3	PUSH		

Note:Please use wires with a cross section of 0.5~2.5mm²(14~20AWG) for TB1 and wires with a cross section of 0.5~1.5 mm²(16~20AWG) for TB2.
Please use wires with a cross section of 0.126~0.205mm²(24~26AWG) for CN100/CN101

■ Installation Manual

Please refer to : <http://www.meanwell.com/webnet/search/InstallationSearch.html>



40W Multiple-Stage Output Current LED Power Supply **LCM-40DA** series



- Features :
- Output current level selectable by DIP S.W.
 - 180~295VAC input only
 - Built-in active PFC function
 - Protections: Short circuit / Over voltage / Over temperature
 - Cooling by free air convection
 - Fully isolated plastic case
 - Class II power unit, no FG
 - Built-in DALI interface and push dimming function
 - Optional 12V/50mA auxiliary output (Model No.: LCM-40DA-AUX)
 - IP20 design
 - Logarithm or linear dimming curve selectable(Meet IEC62386-207)
 - Temperature compensation function by external NTC
 - No load power consumption <0.5W(<1.2W for LCM-40DA-AUX)(Note.7)
 - Power supplies synchronization function up to 10 units
 - Suitable for indoor LED lighting applications
 - 3 years warranty



SPECIFICATION

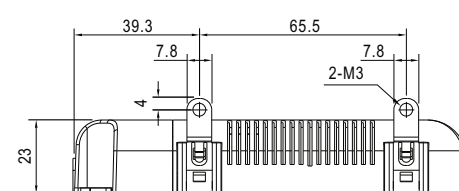
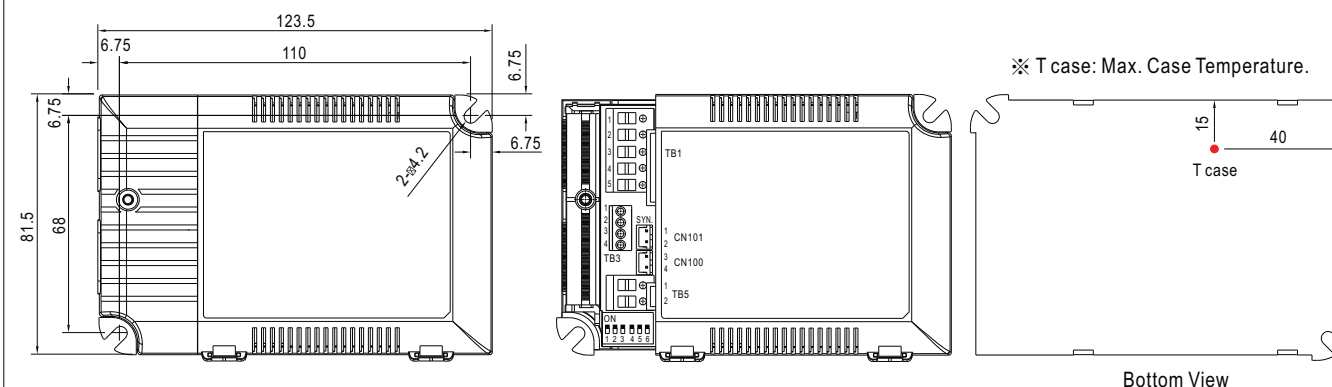
MODEL		LCM-40DA					
OUTPUT	SELECTABLE CURRENT Note.3	350mA	500mA	600mA	700mA	900mA	1050mA
	DC VOLTAGE RANGE	2 ~ 100V	2 ~ 80V	2 ~ 67V	2 ~ 57V	2 ~ 45V	2 ~ 40V
	RATED POWER	42W					
	RIPPLE CURRENT	±5%					
	RIPPLE & NOISE (max.) Note.2	700mVp-p					
	NO LOAD OUTPUT VOLTAGE (max.)	110V				65V	
	CURRENT ACCURACY	±5%					
	SETUP, RISE TIME Note.5	500ms, 80ms / 230VAC at rated power					
INPUT	HOLD UP TIME (Typ.)	16ms/230VAC at rated power					
	VOLTAGE RANGE Note.4	180 ~ 295VAC	254 ~ 417VDC				
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	PF ≥ 0.975/230VAC, PF ≥ 0.96/277VAC at rated power (Please refer to "Power Factor Characteristic" curve)					
	TOTAL HARMONIC DISTORTION	Total harmonic distortion will be lower than 20% when output loading is 75% or higher					
	EFFICIENCY (Typ.) Note.6	91%					
	AC CURRENT (Typ.)	0.23A/230VAC	0.2A/277VAC				
	INRUSH CURRENT (Typ.)	COLD START 20A(twidth=260μs measured at 50% Ipeak) at 230VAC					
PROTECTION	LEAKAGE CURRENT	<0.5mA / 240VAC					
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed					
	OVER VOLTAGE	110 ~ 130V Protection type : Shutdown o/p voltage, re-power on to recover					
FUNCTION	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover					
	AUXILIARY POWER (optional)	12V @ 50mA for driving fan; Tolerance ±5%					
	TEMP. COMPENSATION	By external NTC(not provide with the power supply), please see "Temperature compensation operation"					
	DIMMING	Please see "Dimming Operation"					
ENVIRONMENT	SYNCHRONIZATION	Please see "Synchronization Operation"					
	WORKING TEMP.	-30 ~ +60℃ (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)					
SAFETY & EMC	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
	SAFETY STANDARDS	UL8750, ENEC EN61347-1, EN61347-2-13, EN62384 independent, GB19510.14, GB19510.1 approved					
	DALI STANDARDS	Comply with IEC62386-101, 102, 207					
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC					
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25℃ / 70% RH					
OTHERS	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C(≥ 40% rated power) ; EN61000-3-3; GB17625.1, GB17743					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61547 light industry level (surge 2KV), criteria A					
	MTBF	193.6K hrs min. MIL-HDBK-217F (25℃)					
NOTE	DIMENSION	123.5*81.5*23mm (L*W*H)					
	PACKING	0.24Kg / 54pcs/15Kg/1.12CUFT					
	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf parallel capacitor. 3. Please see "DIP switch table". 4. Derating may be needed under low input voltage. Please check the static characteristics for more details. 5. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. 6. Efficiency is measured at 500mA/80V output set by DIP switch. 7. No load power consumption<0.5W(LCM-40DA) and <1.2W(LCM-40DA-AUX) is measured at 180~277VAC, with lighting fixture connected and output current dimmed to 0%. 8. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.						

File Name:LCM-40DA-SPEC 2014-10-27



40W Multiple-Stage Output Current LED Power Supply **LCM-40DA** series

■ Mechanical Specification



Terminal Pin No. Assignment(TB1)

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DA+
2	AC/N	5	DA-
3	PUSH		

Terminal Pin No. Assignment(TB3)

Pin No.	Assignment	Pin No.	Assignment
1	+FAN(optional)	3	+NTC
2	-FAN(optional)	4	-NTC

Terminal Pin No. Assignment(TB5)

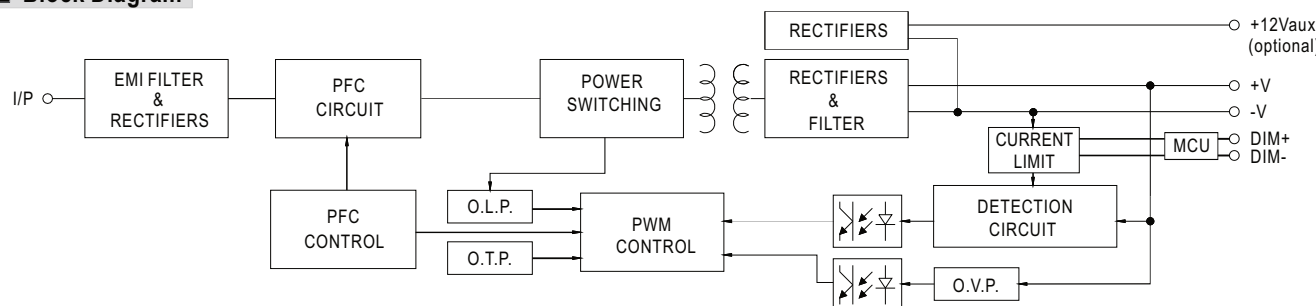
Pin No.	Assignment
1	+Vo
2	-Vo

SYN. Connector(CN101/CN100):JST B2B-XH or equivalent

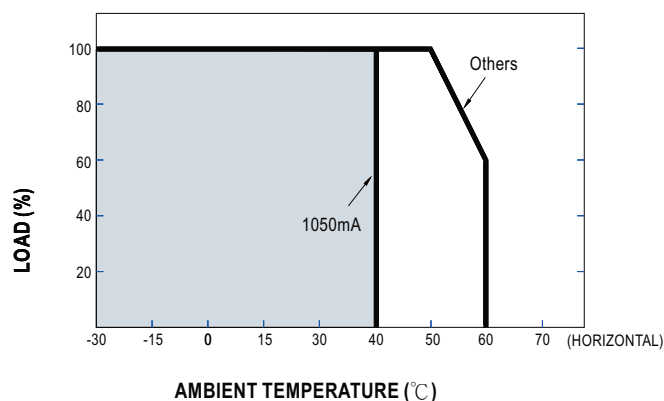
Pin No.	Assignment	Mating Housing	Terminal
1,3	+	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
2,4	-		

PFC fosc : 60KHz
PWM fosc : 80KHz

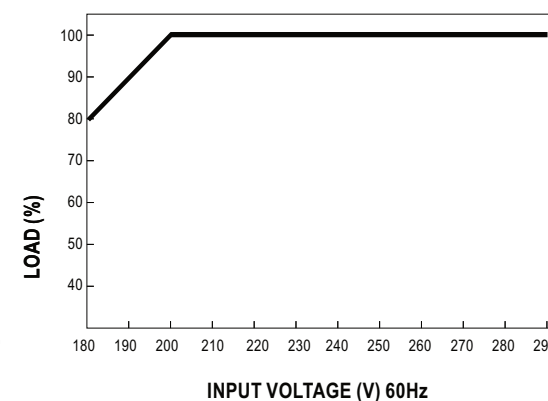
■ Block Diagram



■ Derating Curve



■ Static Characteristics



File Name:LCM-40DA-SPEC 2014-10-27
smart mit led gmbh — Hainbachgasse 14 · 1140 Wien
Tel. + 43(0)1 979 099524 Fax. + 43(0)1 979 099513
office@smart-mit-led.com www.smart-mit-led.com



60W Multiple-Stage Output Current LED Power Supply **LCM-60DA** series



■ Features :

- Output current level selectable by DIP S.W.
- 180~295VAC input only
- Built-in active PFC function
- Protections: Short circuit / Over voltage / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- Class II power unit, no FG
- Built-in DALI interface and push dimming function
- Optional 12V/50mA auxiliary output (Model No.: LCM-60DA-AUX)
- IP20 design
- Logarithm or linear dimming curve selectable(Meet IEC62386-207)
- Temperature compensation function by external NTC
- No load power consumption <0.5W(<1.2W for LCM-60DA-AUX)(Note.7)
- Power supplies synchronization function up to 10 units
- Suitable for indoor LED lighting applications
- 3 years warranty



SPECIFICATION

MODEL	LCM-60DA					
OUTPUT	SELECTABLE CURRENT Note.3	500mA	600mA	700mA	900mA	1050mA
	DC VOLTAGE RANGE	2 ~ 90V	2 ~ 90V	2 ~ 86V	2 ~ 67V	2 ~ 57V
	RATED POWER	60.3W				
	RIPPLE CURRENT	±5%				
	RIPPLE & NOISE (max.) Note.2	700mVp-p				
	NO LOAD OUTPUT VOLTAGE (max.)	95V			73V	
	CURRENT ACCURACY	±5.0%				
INPUT	SETUP, RISE TIME Note.5	500ms, 80ms / 230VAC at rated power				
	HOLD UP TIME (Typ.)	16ms/230VAC at rated power				
	VOLTAGE RANGE Note.4	180 ~ 295VAC	254 ~ 417VDC			
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF ≥ 0.975/230VAC, PF ≥ 0.96/277VAC at rated power (Please refer to "Power Factor Characteristic" curve)				
	TOTAL HARMONIC DISTORTION	Total harmonic distortion will be lower than 20% when output loading is 75% or higher				
	EFFICIENCY (Typ.) Note.6	92%				
PROTECTION	AC CURRENT (Typ.)	0.32A/230VAC	0.27A/277VAC			
	INRUSH CURRENT (Typ.)	COLD START 20A(twidth=270μs measured at 50% Ipeak) at 230VAC				
	LEAKAGE CURRENT	<0.5mA / 240VAC				
FUNCTION	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed				
	OVER VOLTAGE	105 ~ 125V				
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover				
ENVIRONMENT	AUXILIARY POWER (optional)	12V @ 50mA for driving fan; Tolerant±5%				
	TEMP. COMPENSATION	By external NTC(not provide with the power supply), please see "Temperature compensation operation"				
	DIMMING	Please see "Dimming Operation"				
SAFETY & EMC	SYNCHRONIZATION	Please see "Synchronization Operation"				
	WORKING TEMP.	-30 ~ +60°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
OTHERS	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
NOTE	SAFETY STANDARDS	UL8750, ENEC EN61347-1, EN61347-2-13, EN62384 independent, GB19510.14, GB19510.1 approved				
	DALI STANDARDS	Comply with IEC62386-101, 102, 207				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC				
	ISOLATION RESISTANCE	I/P-O/P>100M Ohms / 500VDC / 25°C / 70% RH				
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C(≥40% rated power) ; EN61000-3-3; GB17625.1,GB17743				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61547 light industry level (surge 2KV), criteria A				
	MTBF	193.6K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	123.5*81.5*23mm (L*W*H)				
	PACKING	0.24Kg ; 54pcs/15Kg/1.12CUFT				

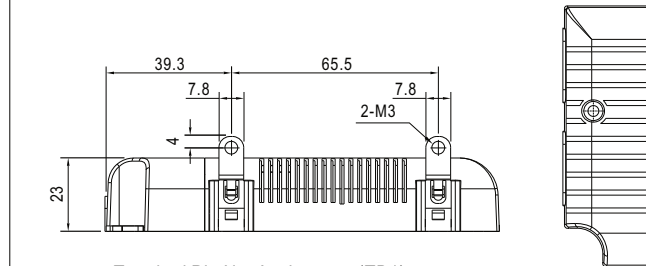
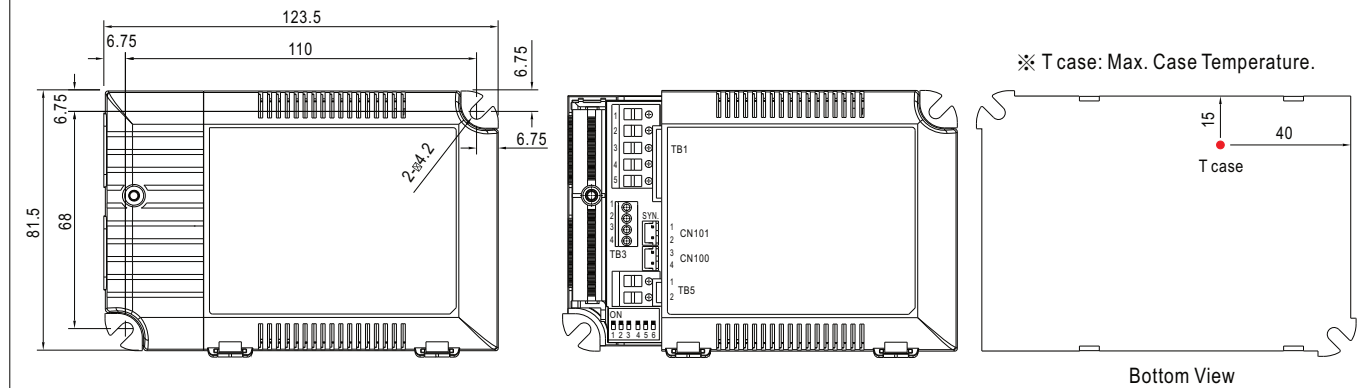
File Name:LCM-60DA-SPEC 2014-10-27



60W Multiple-Stage Output Current LED Power Supply **LCM-60DA** series

■ Mechanical Specification

Case No.LCM-60A Unit:mm



Terminal Pin No. Assignment(TB1)

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DA+
2	AC/N	5	DA-
3	PUSH		

Terminal Pin No. Assignment(TB3)

Pin No.	Assignment	Pin No.	Assignment
1	+FAN(optional)	3	+NTC
2	-FAN(optional)	4	-NTC

Terminal Pin No. Assignment(TB5)

Pin No.	Assignment
1	+Vo
2	-Vo

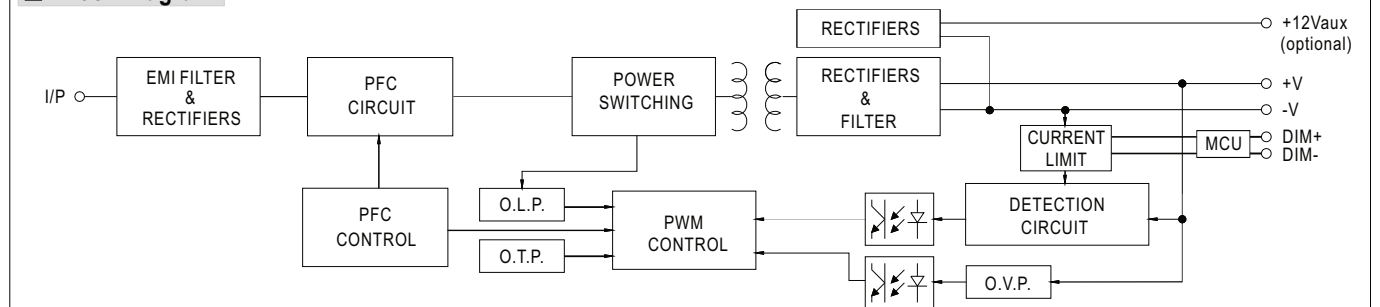
SYN. Connector(CN101/CN100):JST B2B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,3	+	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
2,4	-		

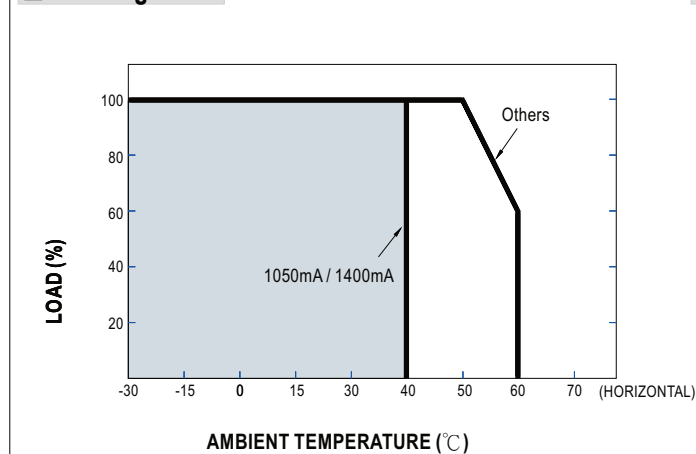
PFC fosc : 60KHz

PWM fosc : 80KHz

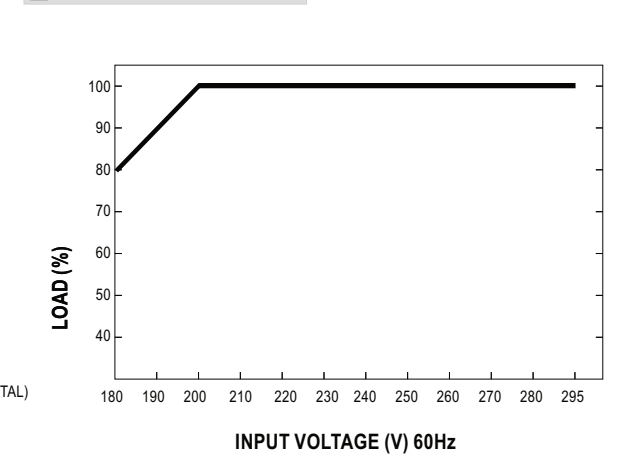
■ Block Diagram



■ Derating Curve



■ Static Characteristics



TRIDONIC

LED Driver
Compact dimming

IP20 SELV 

TALEX(driver LCAI 20W 350mA–900mA ECO SR
ECO series

Product description

- Independent dimmable LED Driver
- Constant current LED Driver
- Output current adjustable between 350 – 900 mA
- Max. output power 20 W
- Nominal life-time up to 100,000 h
- 5-year guarantee
- Dimming range 1 ... 100 %

Properties

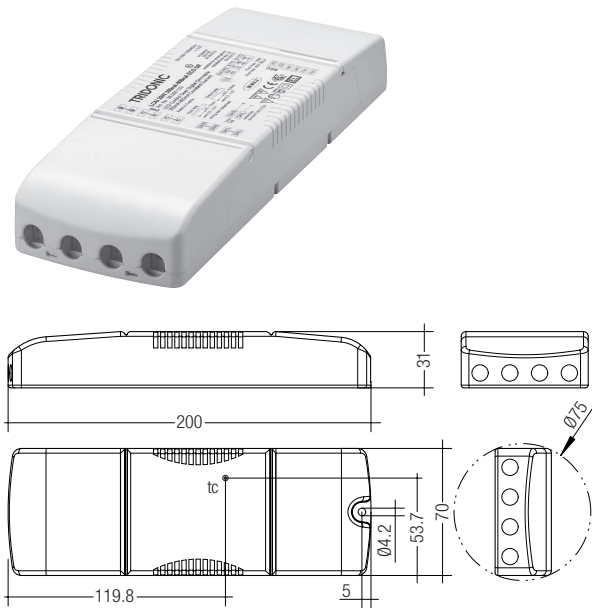
- Casing: polycarbonate, white
- Rapid installation of cable clamp and terminal cover, no tool required
- Large connection compartment
- Type of protection IP20

Interfaces

- DALI DEVICE Type 6
- DSI
- switchDIM (with memory function)
- corridorFUNCTION
- Input for temperature sensor (LED temperature monitoring)

Functions

- Adjustable output current (I-select resistor or DALI)
- Power-up fading at AC
- Intelligent Temperature Guard (overtemperature protection)
- Short-circuit proof
- Overload protection
- Constant Light Output function
- Suitable for emergency lighting units acc. to EN50172



Ordering data

Type	Article number	Packaging carton	Packaging pallet	Weight per pc.
LCAI 20W 350mA-900mA ECO SR	28000123	10 pc(s).	400 pc(s).	0.2 kg



Standards, page 4

Data sheet 02/15-LC059-7
Subject to change without notice.

www.tridonic.com

1

TRIDONIC

LED Driver
Compact dimming

IP20 SELV 

TALEX(driver LCAI 35W 350mA–900mA ECO SR
ECO series

Product description

- Independent dimmable LED Driver
- Constant current LED Driver
- Output current adjustable between 350 – 900 mA
- Max. output power 35 W
- Nominal life-time up to 100,000 h
- 5-year guarantee
- Dimming range 1 ... 100 %

Properties

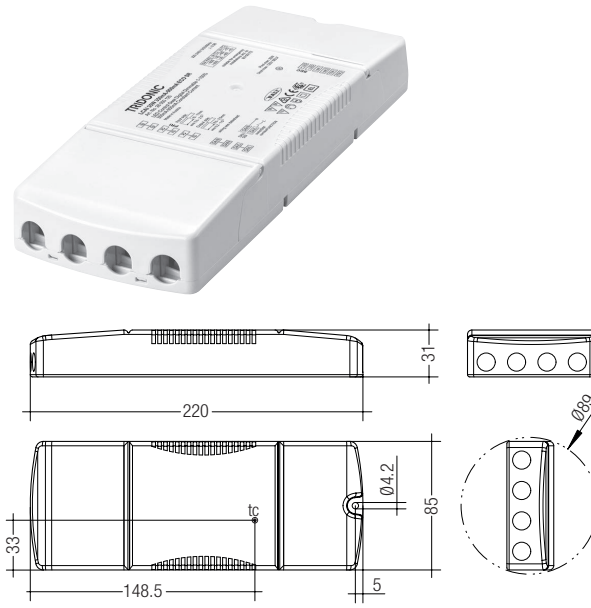
- Casing: polycarbonate, white
- Rapid installation of cable clamp and terminal cover, no tool required
- Large connection compartment
- Type of protection IP20
- Accessory LCF 12V FAN DRIVER fits into the secondary wiring area of the LED Driver

Interfaces

- DALI DEVICE Type 6
- DSI
- switchDIM (with memory function)
- corridorFUNCTION
- Input for temperature sensor (LED temperature monitoring)

Functions

- Adjustable output current (I-select resistor or DALI)
- Power-up fading at AC
- Intelligent Temperature Guard (overtemperature protection)
- Short-circuit proof
- Overload protection
- Constant Light Output function
- Suitable for emergency lighting units acc. to EN50172



Ordering data

Type	Article number	Packaging carton	Packaging pallet	Weight per pc.
LCAI 35W 350mA-900mA ECO SR	28000125	10 pc(s).	400 pc(s).	0.263 kg



Standards, page 4

Data sheet 02/15-LC063-9
Subject to change without notice.

www.tridonic.com

1

TRIDONIC

LED Driver
Compact dimming

IP20 SELV

TALEX(driver LCAI 35W 900mA–1750mA ECO SR
ECO series

Product description

- Independent dimmable LED Driver
- Constant current LED Driver
- Output current adjustable between 900 – 1,750 mA
- Max. output power 35 W
- Nominal life-time up to 100,000 h
- 5-year guarantee
- Dimming range 1 ... 100 %

Properties

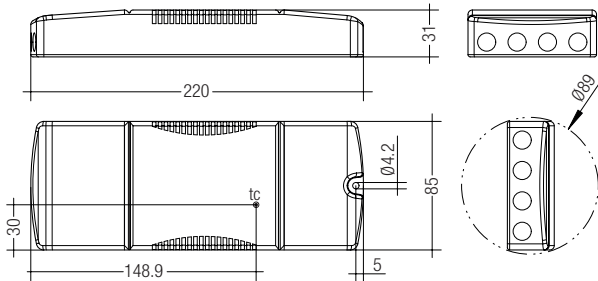
- Casing: polycarbonate, white
- Rapid installation of cable clamp and terminal cover, no tool required
- Large connection compartment
- Type of protection IP20
- Accessory LCF 12V FAN DRIVER fits into the secondary wiring area of the LED Driver

Interfaces

- DALI DEVICE Type 6
- DSI
- switchDIM (with memory function)
- corridorFUNCTION
- Input for temperature sensor (LED temperature monitoring)

Functions

- Adjustable output current (I-select resistor or DALI)
- Power-up fading at AC
- Intelligent Temperature Guard (overtemperature protection)
- Short-circuit proof
- Overload protection
- Constant Light Output function
- Suitable for emergency lighting units acc. to EN50172



Ordering data

Type	Article number	Packaging carton	Packaging pallet	Weight per pc.
LCAI 35W 900mA-1750mA ECO SR	28000127	10 pc(s).	400 pc(s).	0.272 kg



Standards, page 4

Data sheet 02/15-LC065-9
Subject to change without notice.

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1

TRIDONIC

LED Driver
Compact dimming

IP20 SELV

TALEX(driver LCAI 55W 900mA–1750mA ECO SR
ECO series

Product description

- Independent dimmable LED Driver
- Constant current LED Driver
- Output current adjustable between 900 – 1,750 mA
- Max. output power 55 W
- Nominal life-time up to 100,000 h
- 5-year guarantee
- Dimming range 1 ... 100 %

Properties

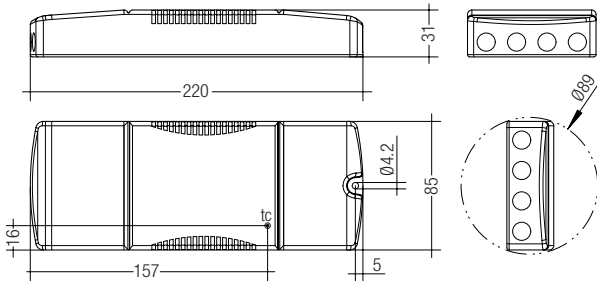
- Casing: polycarbonate, white
- Rapid installation of cable clamp and terminal cover, no tool required
- Large connection compartment
- Type of protection IP20
- Accessory LCF 12V FAN DRIVER fits into the secondary wiring area of the LED Driver

Interfaces

- DALI DEVICE Type 6
- DSI
- switchDIM (with memory function)
- corridorFUNCTION
- Input for temperature sensor (LED temperature monitoring)

Functions

- Adjustable output current (I-select resistor or DALI)
- Power-up fading at AC
- Intelligent Temperature Guard (overtemperature protection)
- Short-circuit proof
- Overload protection
- Constant Light Output function
- Suitable for emergency lighting units acc. to EN50172



Ordering data

Type	Article number	Packaging carton	Packaging pallet	Weight per pc.
LCAI 55W 900mA-1750mA ECO SR	28000129	10 pc(s).	400 pc(s).	0.278 kg



Standards, page 4

Data sheet 02/15-LC067-9
Subject to change without notice.

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1

Produktdatenblatt



OTi DALI 25/220...240/700 LT2
OPTOTRONIC Intelligent | – Dimmbar DALI



Anwendungsgebiete

- Einbau in Notbeleuchtungsanlagen gemäß IEC 61347-2-3, Anhang J
- Für den Einsatz in Leuchten mit flexibler Stromeinstellung (DALI, CLO, LEDset) geeignet
- Geeignet für SELV-äquivalente Installationen im Innenbereich
- Geeignet für Leuchten der Schutzklasse I und II
- Einbau oder unabhängige Montage über Cable Clamp Kit möglich

Produktvorteile

- Vielseitiger DALI-Weitbereichstreiber durch flexible Ausgangscharakteristik
- Sehr hohe Effizienz und Zuverlässigkeit
- Schutz des Systems dank Thermomanagement und Smart Control

Vielseitiger Anwendungsbereich durch OSRAM DALI Technologie:

- Einfacher Einsatz in Korridoren und Toiletten durch die dreistufige Corridor-Funktion
- Touch DIM-Anwendung: Einfache Steuerung durch Taster oder Sensor
- Energieeffizienter Touch DIM-Betrieb durch automatische Abschaltung bei ausreichendem Restlicht
- Geeignet für Notlichtinstallationen (gem. EN 60598-2-22 und IEC 61347-2-13, Anhang J) dank DC-Erkennung (0 Hz, pulsierender DC), ein-/ausschaltbar
- Rückmeldung des Leistungsverbrauchs und Betriebsstunden (Fit for SMART GRID)
- Geeignet für Gebäude gemäß EPBD/BREEAM/LEED durch automatische Constant Lumen Output-Einstellung

Produkteigenschaften

- Versorgungsspannung: 220...240 V
- Netzfrequenz: 0 Hz | 50 Hz | 60 Hz
- Netzspannung: 198...264 V
- Sicherheit nach EN 61347-1, 61347-2-3, 61347-2-13, 62384
- Funkentstörung nach EN 55015:2007+A1:2007/CDN
- Netzstromoberwellen nach EN 61000-3-2

Produktdatenblatt

Technische Daten

Elektrische Daten

Nennausgangsleistung	27 W ¹⁾
Eingangsspannung AC	198...264 V ²⁾
Netzfrequenz	50...60 Hz
Nennausgangsspannung	12...54 V ³⁾
Nennausgangsstrom	180...700 mA ⁴⁾
Verlustleistung im Stand-By-Betrieb	<0.5 W
Nennspannung	220...240 V
Nennstrom	0,14 A
Netzleistungsfaktor λ	0,95
EVG-Effizienz	86 % ⁵⁾
Einschaltstrom	17 A ⁶⁾
Max. Anz. EVG an Sicherungsaut. 10 A (B)	45
Max. Anz. EVG an Sicherungsaut. 16 A (B)	80
Galvanische Trennung primär/sekundär	3.75 kV ⁷⁾
Stoßspannungsfestigkeit (L – N)	1 kV

- ¹⁾ Teillast 7...27 W
²⁾ Zulässiger Spannungsbereich
³⁾ Maximum 60 V
⁴⁾ ±5%
⁵⁾ Typisch / Bei Volllast und 230 V
⁶⁾ $t_{width} = 50 \mu s$ (gemessen bei 50 % I_{peak})
⁷⁾ SELV-äquivalent

Abmessungen & Gewicht

Länge	103,0 mm
Breite	67,0 mm
Lochmaßabstand Länge	94,0 mm
Lochmaßabstand Breite	58,0 mm
Höhe	29,5 mm
Produktgewicht	149,00 g
Leitungsquerschnitt eingangsseitig	0.2...1.5 mm ² ¹⁾
Leitungsquerschnitt ausgangsseitig	0.2...1.5 mm ² ¹⁾
Abisolierlänge eingangsseitig	8.0...9.0 mm

- ¹⁾ Massive oder flexible Adern

Farben & Materialien

Gehäusematerial	Kunststoff
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Produktdatenblatt



OTi DALI 35/220...240/1A0 LT2

OPTOTRONIC Intelligent | – Dimmbar DALI



Anwendungsgebiete

- Einbau in Notbeleuchtungsanlagen gemäß IEC 61347-2-3, Anhang J
- Für den Einsatz in Leuchten mit flexibler Stromeinstellung (DALI, CLO, LEDset) geeignet
- Geeignet für SELV-äquivalente Installationen im Innenbereich
- Geeignet für Leuchten der Schutzklasse I und II
- Einbau oder unabhängige Montage über Cable Clamp Kit möglich

Produktvorteile

- Vielseitiger DALI-Weitbereichstreiber durch flexible Ausgangscharakteristik
- Sehr hohe Effizienz und Zuverlässigkeit
- Schutz des Systems dank Thermomanagement und Smart Control

Vielseitiger Anwendungsbereich durch OSRAM DALI Technologie:

- Einfacher Einsatz in Korridoren und Toiletten durch die dreistufige Corridor-Funktion
- Touch DIM-Anwendung: Einfache Steuerung durch Taster oder Sensor
- Energieeffizienter Touch DIM-Betrieb durch automatische Abschaltung bei ausreichendem Restlicht
- Geeignet für Notlichtinstallationen (gem. EN 60598-2-22 und IEC 61347-2-13, Anhang J) dank DC-Erkennung (0 Hz, pulsierender DC), ein-/ausschaltbar
- Rückmeldung des Leistungsverbrauchs und Betriebsstunden (Fit for SMART GRID)
- Geeignet für Gebäude gemäß EPBD/BREEAM/LEED durch automatische Constant Lumen Output-Einstellung

Produkteigenschaften

- Versorgungsspannung: 220...240 V
- Netzfrequenz: 0 Hz | 50 Hz | 60 Hz
- Netzspannung: 198...264 V
- Sicherheit nach EN 61347-1, 61347-2-3, 61347-2-13, 62384
- Funkentstörung nach EN 55015:2007+A1:2007/CDN
- Netzstromoberwellen nach EN 61000-3-2

Produktdatenblatt

Technische Daten

Elektrische Daten

Nennausgangsleistung	35 W ¹⁾
Eingangsspannung AC	198...264 V ²⁾
Netzfrequenz	50...60 Hz
Nennausgangsspannung	15...54 V ³⁾
Nennausgangsstrom	350...1050 mA ⁴⁾
Verlustleistung im Stand-By-Betrieb	<0.5 W
Nennspannung	220...240 V
Nennstrom	0,18 A
Netzleistungsfaktor λ	0,95
EVG-Effizienz	86 % ⁵⁾
Einschaltstrom	17 A ⁶⁾
Max. Anz. EVG an Sicherungsaut. 10 A (B)	33
Max. Anz. EVG an Sicherungsaut. 16 A (B)	55
Galvanische Trennung primär/sekundär	3,75 kV ⁷⁾
Stoßspannungsfestigkeit (L – N)	1 kV

¹⁾ Teillast 15...35 W

²⁾ Zulässiger Spannungsbereich

³⁾ Maximum 60 V

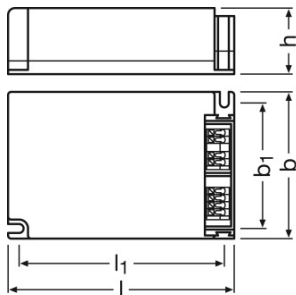
⁴⁾ $\pm 5\%$

⁵⁾ Typisch / Bei Volllast und 230 V

⁶⁾ $t_{width} = 50 \mu s$ (gemessen bei 50 % I_{peak})

⁷⁾ SELV-äquivalent

Abmessungen & Gewicht



Länge	103,0 mm
Breite	67,0 mm
Lochmaßabstand Länge	94,0 mm

Produktdatenblatt



OTi DALI 50/220...240/1A4 LT2 FAN
OPTOTRONIC Intelligent | – Dimmbar DALI



Anwendungsgebiete

- Einbau in Notbeleuchtungsanlagen gemäß IEC 61347-2-3, Anhang J
- Für den Einsatz in Leuchten mit flexibler Stromeinstellung (DALI, CLO, LEDset) geeignet
- Geeignet für SELV-äquivalente Installationen im Innenbereich
- Geeignet für Leuchten der Schutzklasse I und II
- Einbau oder unabhängige Montage über Cable Clamp Kit möglich

Produktvorteile

- Vielseitiger DALI-Weitbereichstreiber durch flexible Ausgangscharakteristik
- Sehr hohe Effizienz und Zuverlässigkeit
- Schutz des Systems dank Thermomanagement und Smart Control

Vielseitiger Anwendungsbereich durch OSRAM DALI Technologie:

- Einfacher Einsatz in Korridoren und Toiletten durch die dreistufige Corridor-Funktion
- Touch DIM-Anwendung: Einfache Steuerung durch Taster oder Sensor
- Energieeffizienter Touch DIM-Betrieb durch automatische Abschaltung bei ausreichendem Restlicht
- Geeignet für Notlichtinstallationen (gem. EN 60598-2-22 und IEC 61347-2-13, Anhang J) dank DC-Erkennung (0 Hz, pulsierender DC), ein-/ausschaltbar
- Rückmeldung des Leistungsverbrauchs und Betriebsstunden (Fit for SMART GRID)
- Geeignet für Gebäude gemäß EPBD/BREEAM/LEED durch automatische Constant Lumen Output-Einstellung

Produkteigenschaften

- Versorgungsspannung: 220...240 V
- Netzfrequenz: 0 Hz | 50 Hz | 60 Hz
- Netzspannung: 198...264 V
- Sicherheit nach EN 61347-1, 61347-2-3, 61347-2-13, 62384
- Funkentstörung nach EN 55015:2007+A1:2007/CDN
- Netzstromoberwellen nach EN 61000-3-2

Produktdatenblatt

Technische Daten

Elektrische Daten

Nennausgangsleistung	55 W ¹⁾
Eingangsspannung AC	198...264 V ²⁾
Netzfrequenz	50...60 Hz
Nennausgangsspannung	15...54 V ³⁾
Nennausgangsstrom	600...1400 mA ⁴⁾
Verlustleistung im Stand-By-Betrieb	<0.5 W
Nennspannung	220...240 V
Nennstrom	0,27 A
Netzleistungsfaktor λ	0,95
EVG-Effizienz	91 % ⁵⁾
Einschaltstrom	30 A ⁶⁾
Max. Anz. EVG an Sicherungsaut. 10 A (B)	12
Max. Anz. EVG an Sicherungsaut. 16 A (B)	20
Galvanische Trennung primär/sekundär	3,75 kV ⁷⁾
Stoßspannungsfestigkeit (L/N – Erde)	2 kV ⁸⁾
Stoßspannungsfestigkeit (L – N)	1 kV

¹⁾ Teillast 22...55 W

²⁾ Zulässiger Spannungsbereich

³⁾ Maximum 60 V

⁴⁾ ±5%

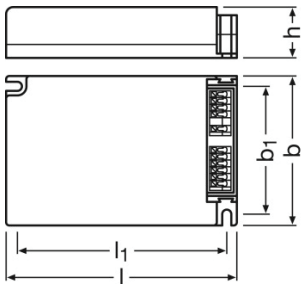
⁵⁾ Bei Volllast und 230 V

⁶⁾ $t_{width} = 200 \mu s$ (gemessen bei 50 % I_{peak})

⁷⁾ SELV-äquivalent

⁸⁾ Funktionserde

Abmessungen & Gewicht



Länge	110,0 mm
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16W Single Output Switching Power Supply

LPF-16 series



- Features :
 - Universal AC input / Full range (up to 305VAC)
 - Protections: Short circuit / Over current / Over voltage / Over temperature
 - Built-in active PFC function
 - Cooling by free air convection
 - Fully isolated plastic case with IP30 level (Note.8)
 - Class II power unit, no FG
 - Class 2 power unit
 - IP67(optional , model NO. : LPF-16-**f2**P)
 - Suitable for LED lighting and moving sign applications
 - Compliance to worldwide safety regulations for lighting
 - Suitable for dry / damp locations(wet location for LPF-16-**f2**P)
 - 5 years warranty



SPECIFICATION

MODEL		LPF-16-12	LPF-16-15	LPF-16-20	LPF-16-24	LPF-16-30	LPF-16-36	LPF-16-42	LPF-16-48	LPF-16-54	
OUTPUT	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
	CONSTANT CURRENT REGION Note.4	6.6 ~ 12V	8.25 ~ 15V	11 ~ 20V	13.2 ~ 24V	16.5 ~ 30V	19.8 ~ 36V	23.1 ~ 42V	26.4 ~ 48V	29.7 ~ 54V	
	RATED CURRENT	1.34A	1.07A	0.8A	0.67A	0.54A	0.45A	0.39A	0.34A	0.3A	
	RATED POWER	16.08W	16.05W	16W	16.08W	16.2W	16.2W	16.38W	16.32W	16.2W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p	
	VOLTAGE TOLERANCE Note.3	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME Note.6	1500ms, 80ms / 115VAC at full load 500ms, 80ms / 230VAC									
HOLD UP TIME (Typ.)	16ms at full load 230VAC / 115VAC										
INPUT	VOLTAGE RANGE Note.5	90 ~ 305VAC		127 ~ 431VDC							
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.97/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)									
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading≥60% at 115VAC/230VAC input and output loading≥75% at 277VAC input									
	EFFICIENCY (Typ.)	84%	84%	86%	86%	86%	86%	86%	86%	86%	
	AC CURRENT	0.4A / 115VAC		0.25A / 230VAC		0.2A/277VAC					
	INRUSH CURRENT (Typ.)	COLD START 45A(twidth=200μs measured at 50% Ipeak) at 230VAC									
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	14 units (circuit breaker of type B) / 24 units (circuit breaker of type C) at 230VAC									
LEAKAGE CURRENT	<0.75mA / 240VAC										
PROTECTION	OVER CURRENT Note.4	95 ~ 108% Protection type : Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.									
	OVER VOLTAGE	15 ~ 18V 17.5 ~ 21V 23 ~ 27V 28 ~ 35V 34 ~ 40V 41 ~ 49V 46 ~ 54V 54 ~ 63V 59 ~ 66V Protection type : Shut down and latch off o/p voltage, re-power on to recover									
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down									
ENVIRONMENT	WORKING TEMP.	-35 ~ +70℃ (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)									
SAFETY & EMC	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes									
	SAFETY STANDARDS	UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, EN62384, J61347-1, J61347-2-13 approved, IP67 (optional) ; Design refer to UL60950-1, TUV EN60950-1									
	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC									
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25℃/ 70% RH									
	EMC EMISSION	Compliance to EN55015; EN61000-3-2 Class C (≥ 50% load) ; EN61000-3-3									
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level(surge 2KV), criteria A									
	MTBF	473.3Khrs min. MIL-HDBK-217F (25℃)									
	DIMENSION	148*40*32mm (L*W*H)									
NOTE	PACKING	0.21Kg; 40pcs/9.4Kg/1.02CUFT									
	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Constant current operation region is within 50% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 5. Derating may be needed under low input voltages. Please check the static characteristics for more details. 6. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. 7. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-quality EMC Directive on the complete installation again. 8. Suitable for indoor use. 9.To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.										

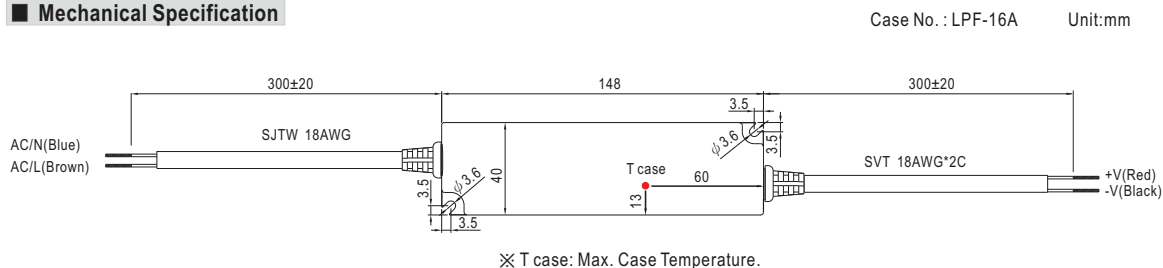
File Name:LPF-16-SPEC 2015-05-28



16W Single Output Switching Power Supply

LPF-16 series

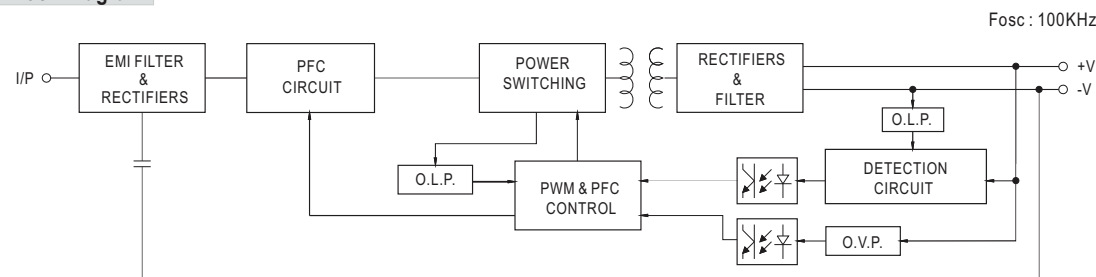
Mechanical Specification



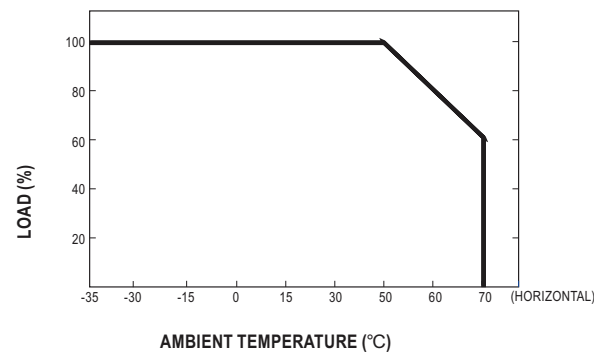
Recommend Mounting Direction



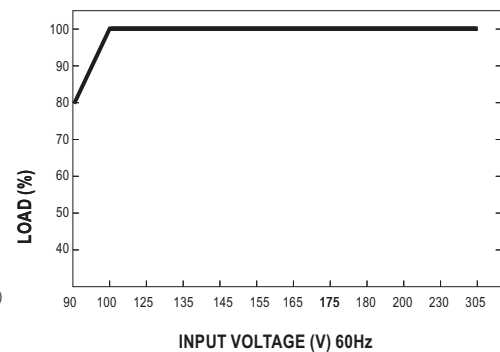
Block Diagram



Derating Curve



Static Characteristics



File Name:LPF-16-SPEC 2015-05-28



25W Single Output Switching Power Supply

LPF-25 series



SPECIFICATION

MODEL		LPF-25-12	LPF-25-15	LPF-25-20	LPF-25-24	LPF-25-30	LPF-25-36	LPF-25-42	LPF-25-48	LPF-25-54	
OUTPUT	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
	CONSTANT CURRENT REGION Note.4	6.6 ~ 12V	8.25 ~ 15V	11 ~ 20V	13.2 ~ 24V	16.5 ~ 30V	19.8 ~ 36V	23.1 ~ 42V	26.4 ~ 48V	29.7 ~ 54V	
	RATED CURRENT	2.1A	1.67A	1.25A	1.05A	0.84A	0.7A	0.6A	0.53A	0.47A	
	RATED POWER	25.2W	25.05W	25W	25.2W	25.2W	25.2W	25.2W	25.44W	25.38W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p	
	VOLTAGE TOLERANCE Note.3	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME Note.7	1500ms, 80ms / 115VAC at full load 500ms, 80ms / 230VAC									
HOLD UP TIME (Typ.)	16ms at full load 230VAC /115VAC										
INPUT	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.97/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)									
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading≥60% at 115VAC/230VAC input and output loading≥75% at 277VAC input									
	EFFICIENCY (Typ.)	84%	85%	86%	86%	86%	86%	86%	87%	86.5%	
	AC CURRENT	0.4A / 115VAC		0.25A / 230VAC		0.2A/277VAC					
	INRUSH CURRENT (Typ.)	COLD START 50A(twidth=200μs measured at 50% Ipeak) at 230VAC									
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	12 units (circuit breaker of type B) / 21 units (circuit breaker of type C) at 230VAC									
LEAKAGE CURRENT	<0.75mA / 240VAC										
PROTECTION	OVER CURRENT Note.4	95 ~ 108% Protection type : Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.									
	OVER VOLTAGE	15 ~ 18V 17.5 ~ 21V 23 ~ 27V 28 ~ 35V 34 ~ 40V 41 ~ 49V 46 ~ 54V 54 ~ 63V 59 ~ 66V									
	OVER TEMPERATURE	Protection type : Shut down and latch off o/p voltage, re-power on to recover									
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down									
ENVIRONMENT	WORKING TEMP.	-35 ~ +70℃ (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)									
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
SAFETY & EMC	SAFETY STANDARDS Note.6	UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, EN62384, J61347-1, J61347-2-13 approved, IP67 approved ;Design refer to UL60950-1, TUV EN60950-1									
	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC									
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25℃/ 70% RH									
	EMC EMISSION	Compliance to EN55015; EN61000-3-2 Class C (≥ 50% load) ; EN61000-3-3									
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547, light industry level(surge 2KV), criteria A									
	MTBF	473.4Khrs min. MIL-HDBK-217F (25℃)									
	DIMENSION	148*40*32mm (L*W*H)									
	PACKING	0.36Kg; 40pcs/ 15.4Kg/1.02CUFT									
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Constant current operation region is within 50% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 5. Derating may be needed under low input voltages. Please check the static characteristics for more details. 6. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minutes. 7. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. 8. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-quality EMC Directive on the complete installation again. 9. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.										

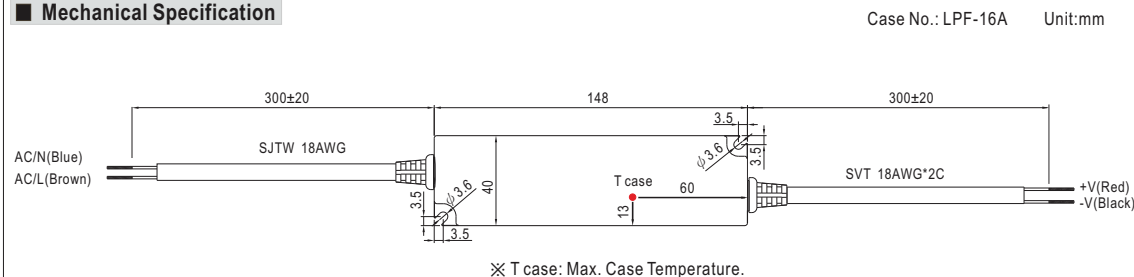
File Name:LPF-25-SPEC 2015-05-28



25W Single Output Switching Power Supply

LPF-25 series

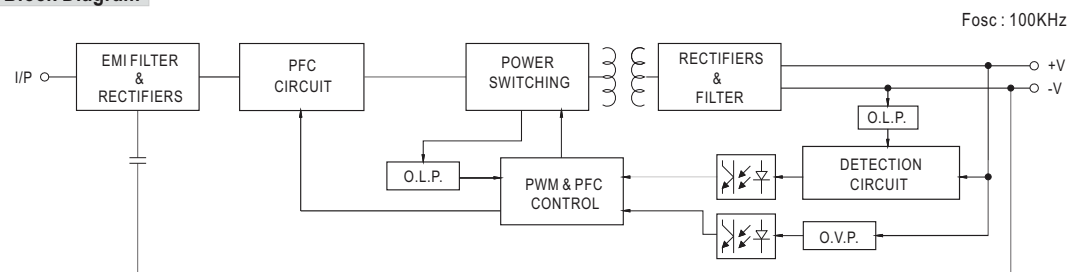
■ Mechanical Specification



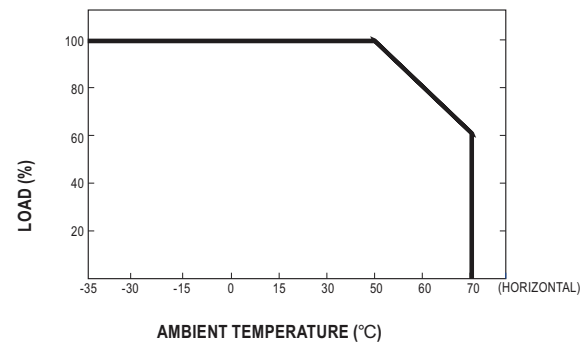
■ Recommend Mounting Direction



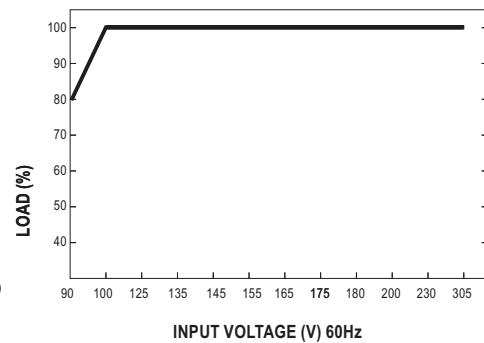
■ Block Diagram



Derating Curve



■ Static Characteristics



File Name:LPF-25-SPEC 2015-05-28



40W Single Output Switching Power Supply

LPF-40 series

■ Features :

- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 90%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- Fully encapsulated with IP67 level (Note.6)
- Class II power unit, no FG
- Class 2 power unit
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations
- 5 years warranty



SPECIFICATION

MODEL		LPF-40-12	LPF-40-15	LPF-40-20	LPF-40-24	LPF-40-30	LPF-40-36	LPF-40-42	LPF-40-48	LPF-40-54
OUTPUT	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
	CONSTANT CURRENT REGION Note.4	7.2 ~ 12V	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V
	RATED CURRENT	3.34A	2.67A	2A	1.67A	1.34A	1.12A	0.96A	0.84A	0.76A
	RATED POWER	40.08W	40.08W	40W	40.08W	40.2W	40.32W	40.32W	40.32W	41.04W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p
	VOLTAGE TOLERANCE Note.3	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME Note.7	1000ms, 80ms / 115VAC at full load 500ms, 80ms / 230VAC								
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load								
INPUT	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF>0.97/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)								
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading≥60% at 115VAC/230VAC input and output loading≥75% at 277VAC input								
	EFFICIENCY (Typ.)	84%	85%	86%	87%	88%	88%	88.5%	90%	90%
	AC CURRENT (Typ.)	0.6A / 115VAC 0.3A / 230VAC 0.25A/277VAC								
	INRUSH CURRENT (Typ.)	COLD START 50A(twidth=210μs measured at 50% Ipeak) at 230VAC								
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	12 units (circuit breaker of type B) / 20 units (circuit breaker of type C) at 230VAC								
	LEAKAGE CURRENT	<0.75mA / 240VAC								
PROTECTION	OVER CURRENT Note.4	95 ~ 108% Protection type : Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.								
	OVER VOLTAGE	15 ~ 17V 17.5 ~ 21V 23 ~ 27V 28 ~ 35V 34 ~ 40V 41 ~ 49V 46 ~ 54V 54 ~ 63V 59 ~ 66V Protection type : Shut down and latch off o/p voltage, re-power on to recover								
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover								
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")								
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)								
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes								
SAFETY & EMC	SAFETY STANDARDS Note.6	UL8750, CSA C22.2 No. 250.0-08(except for 48V, 54V), ENEC EN61347-1, EN61347-2-13 independent, EN62384, IP67, J61347-1, J61347-2-13 approved ; design refer to UL60950-1, TUV EN60950-1								
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC								
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH								
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (≥60% load) ; EN61000-3-3								
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level(surge 2KV), criteria A								
	MTBF	438.8Khrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	162.5*43*32mm (L*W*H)								
NOTE	PACKING	0.44Kg; 32pcs/15.08Kg/0.93CUFT								
	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Please refer to "DRIVING METHODS OF LED MODULE". 5. Derating may be needed under low input voltages. Please check the static characteristics for more details. 6. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minutes. 7. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. 8. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualified EMC Directive on the complete installation again. 9. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.									

File Name:LPF-40-SPEC 2015-05-28

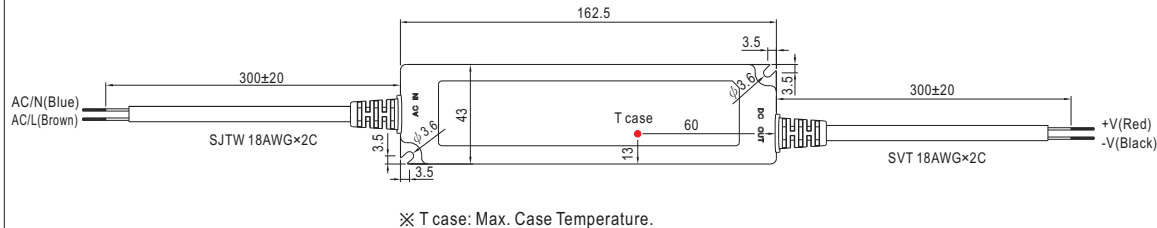


40W Single Output Switching Power Supply

LPF-40 series

■ Mechanical Specification

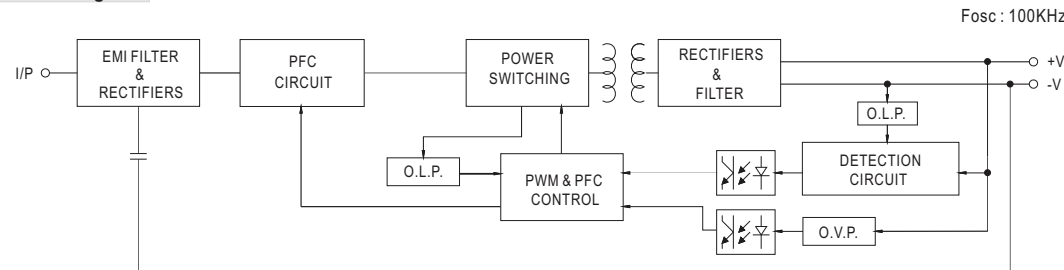
Case No. LPF-60B Unit:mm



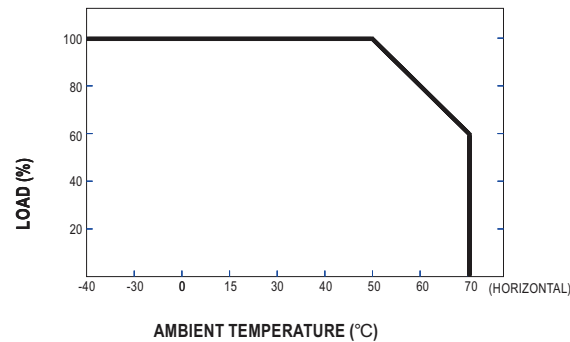
■ Recommend Mounting Direction



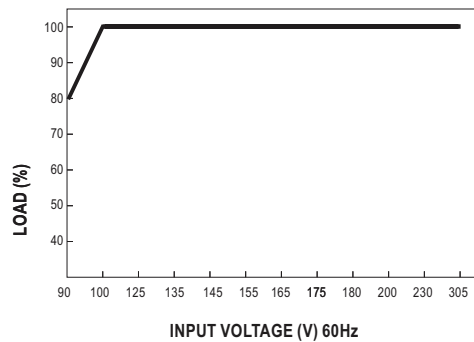
■ Block Diagram



■ Derating Curve



■ Static Characteristics



File Name:LPF-40-SPEC 2015-05-28



60W Single Output Switching Power Supply

LPF-60 series



■ Features :

- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 90%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- Fully encapsulated with IP67 level (Note.6)
- Class II power unit, no FG
- Class 2 power unit
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations
- 5 years warranty



SPECIFICATION

MODEL		LPF-60-12	LPF-60-15	LPF-60-20	LPF-60-24	LPF-60-30	LPF-60-36	LPF-60-42	LPF-60-48	LPF-60-54	
OUTPUT	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
	CONSTANT CURRENT REGION Note.4	7.2 ~ 12V	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V	
	RATED CURRENT	5A	4A	3A	2.5A	2A	1.67A	1.43A	1.25A	1.12A	
	RATED POWER	60W	60W	60W	60W	60W	60.12W	60.06W	60W	60.48W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p	
	VOLTAGE TOLERANCE Note.3	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME Note.7	1000ms, 80ms / 115VAC at full load 500ms, 80ms / 230VAC									
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load									
INPUT	VOLTAGE RANGE Note.5	90 ~ 305VAC		127 ~ 431VDC							
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.97/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)									
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading≥60% at 115VAC/230VAC input and output loading≥75% at 277VAC input									
	EFFICIENCY (Typ.)	86%	87%	88%	89%	90%	90%	90%	90%	90%	
	AC CURRENT (Typ.)	0.8A / 115VAC		0.4A / 230VAC		0.32A/277VAC					
	INRUSH CURRENT (Typ.)	COLD START 55A(width=270μs measured at 50% Ipeak) at 230VAC									
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	8 units (circuit breaker of type B) / 14 units (circuit breaker of type C) at 230VAC									
	LEAKAGE CURRENT	<0.75mA / 240VAC									
	PROTECTION	OVER CURRENT Note.4	95 ~ 108% Protection type : Constant current limiting, recovers automatically after fault condition is removed								
SHORT CIRCUIT		Hiccup mode, recovers automatically after fault condition is removed.									
OVER VOLTAGE		Protection type : Shut down and latch off o/p voltage, re-power on to recover									
OVER TEMPERATURE		Shut down o/p voltage, re-power on to recover									
ENVIRONMENT		WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)									
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
SAFETY & EMC	SAFETY STANDARDS Note.6	UL8750, CSA C22.2 No. 250.0-08(except for 48V, 54V), ENEC EN61347-1, EN61347-2-13 independent, EN62384, IP67, J61347-1, J61347-2-13 approved ; design refer to UL60950-1, TUV EN60950-1									
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC									
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH									
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (≥60% load) ; EN61000-3-3									
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level(surge 2KV), criteria A									
OTHERS	MTBF	440.5Khrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	162.5*43*32mm (L*W*H)									
	PACKING	0.45Kg; 32pcs/15.4Kg/0.93CUFT									
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Please refer to "DRIVING METHODS OF LED MODULE". 5. Derating may be needed under low input voltages. Please check the static characteristics for more details. 6. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minutes. 7. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. 8. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 9. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.										

File Name:LPF-60-SPEC 2015-05-28

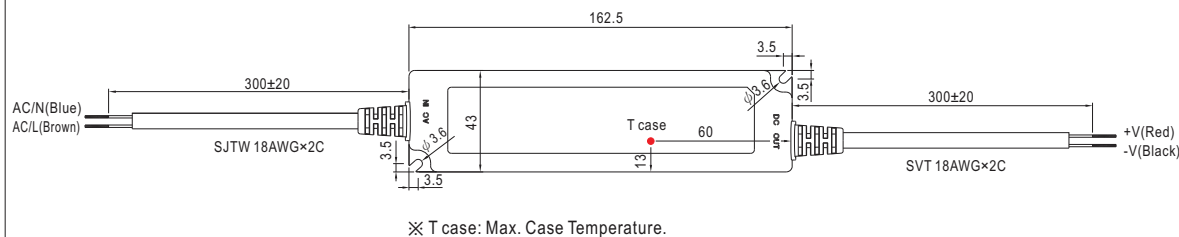


60W Single Output Switching Power Supply

LPF-60 series

■ Mechanical Specification

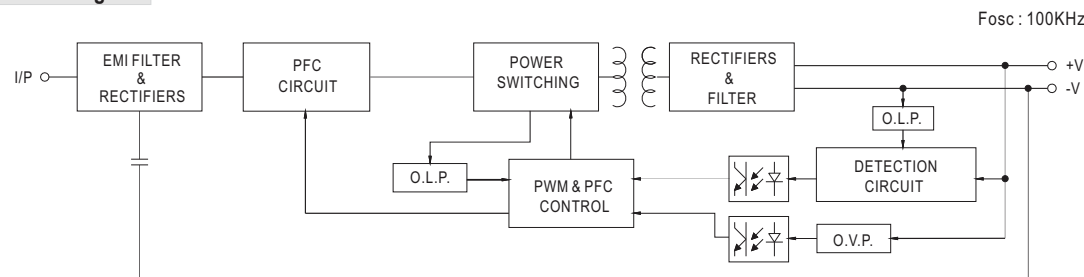
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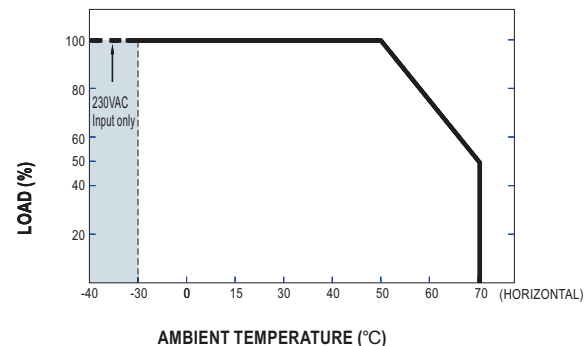
■ Recommend Mounting Direction



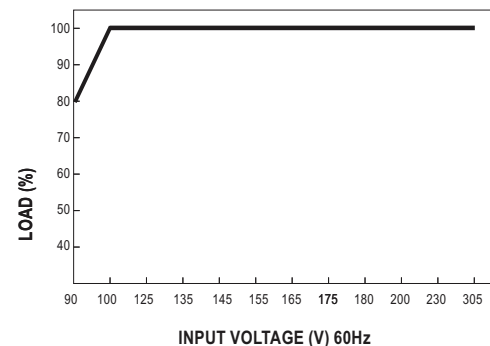
■ Block Diagram



■ Derating Curve



■ Static Characteristics



File Name:LPF-60-SPEC 2015-05-28