

MLCC4045

LED Driver Flicker free



MADE IN INDIA

Areas of application

- Suitable for indoor installations
- Suitable for luminaires of protection classes I and II
- Suitable for downlights, spotlights and LED panel light,



Product benefits

- Wide Operating Range 100-264VAc
- Safety requirement due to Input Over Voltage, O/P overload-S/C, over temperature Auto recovery protections,
- High efficiency and reliability,
- High quality of light.
- Small PCFR-White housing.
- ATHD<10%, Efficiency >85%.

Product features

- Input Over voltage, Output Short/overload/Thermal Auto recovery protections.
- Supply voltage: 220...240 V
- Line frequency: 50 Hz | 60 Hz
- Line voltage: 100...264 Vac
- Safety according to EN 61347-1, 61347-2-13, 62384
- EMI CE suppression: to EN 55015A
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547
- Lifetime: up to 50,000 h (temperature at $T_c = 65^\circ\text{C}$, max. 10 % failure rate)

Technical data

Electrical data

Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Input voltage AC	100...264 Vac
Total harmonic distortion	10%
Power factor	>0.96
ECG efficiency	>85 %
Device power loss	<4.0 W
Inrush current	8 A
Max. ECG no. on circuit breaker 10 A (Type-B)	8
Max. ECG no. on circuit breaker 16 A (Type-B)	16
Max. ECG no. on circuit breaker 25 A (Type-B)	24
Surge capability (L/N-Ground)	2.5 kV
Surge capability (L-N)	2 kV
Nominal output voltage	27-45VDc
U-OUT (working voltage)	60 V
Nominal output current	1200mA (1.2A)
Output current tolerance	±5 %
Output ripple (@100 Hz)	< 2 %
Nominal output power	45W
Galvanic isolation	SELV

Dimensions & weight



Length	210mm
Width	40mm
Height	28mm
Mounting hole spacing, length	200mm

Input	Freq	P.F.	ATHD	Class	Efficiency	Output V	Output A
100-277VAc	47-63Hz	>0.97	<10%	SELV-Isolated	>86%	27-42VDc	900mA
100-277VAc	47-63Hz	>0.97	<10%	SELV-Isolated	>86%	27-42VDc	1050mA
100-277VAc	47-63Hz	>0.97	<10%	SELV-Isolated	>86%	27-42VDc	1200mA

Product datasheet

Mounting hole spacing, width	200 mm
Product weight	210gm
Cable cross-section, input side	0.5...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²
Wire preparation length, input side	6.5...7.5 mm
Wire preparation length, output side	6.5...7.5 mm

Colors & materials

Casing material	PC FR 94V0 White
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Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	75 °C
Max.housing temperature in case of fault	110 °C
Permitted rel. humidity during operation	5...85 %

Lifespan

ECG lifetime	min.50,000 h *
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* At T_{case} = 65°C at T_c point / 10% failure rate

Additional product data

Encapsulated	No
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Capabilities

Dimmable	No
Overheating protection	Auto-recovery
Overload protection	Auto-recovery
Short-circuit protection	Auto-recovery
No-load proof	Yes
Max. cable length to lamp/LED module	1 meter
Suitable for fixtures with prot. class	I / II
Type of connection, output side	Push terminal

Certificates & standards

Approval marks – approval	CE, ENEC, IEC-CB, BIS
Standards	EN-61347-1:2015,+A1,EN-61347-2-23:2014+A1, EN-IEC62384:2020,IS-15885-2-23, EN-61000-3-2, EN61000-4-4&5
Type of protection	IP20

Product datasheet

Logistical data

Temperature range at storage	-40...85 °C
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Download Data

File	
	Product Data sheet.pdf
	Brochure CC Drivers
	ROHs & WEEE Decl.pdf
	EMI-CE report.pdf
	EFT Test Report.pdf
	CAD data.zip

Logistical Data

Product code	Product description	Packaging unit (Pieces/Box)	Dimensions (length x width x Volume height)	Gross weight
MLCC4045	FLICKER FREE CC	Per pack 10pcs	600 mm x 600 mm x 36mm	2.15kg
MLCC4045	FLICKER FREE CC	Shipping carton box10/Box	620 mm x 620 mm x 380mm	22 kg

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Ordering Information:

M	L	C	C	X	4	0	X	4	5	-	1	E
MELCON	LED	C-Constant	A-Analog Dim	O/P Voltage			O/P Power			No.Of O/P	E-Enclosed-IP20	
		F-Flicker Free	B-Bluetooth							1- Mono/DT6	P-Enclosed-IP65	
		D- Dimming	C-Current							2- CCT/DT8	O-Open Const.	
		N- Non-Isolated	D-Dali Dim							3- RGB		
		S-Switch(AOI)	E-Emergency							4- RGBW		
		H-Non-SELV	G-Slave Dim							5- RGBWW		
			I- IR Remote									
			M - Master Dim									
			P-PWM Dim									
			R-Potentiometer									
			T-Triac Dim									
			V-Voltage									
			W-CCT-Tunable white									
			X - W-Fi Dim									
			Z-Zigbee									

Version Change History:

Sr.	Revision	Notes	Date
1.	V0.1	IEC-CB- CE certified and added logos	28.12.2021
2.	V0.2	ENEC Logo added, Order info change	21.10.2022