

PRODUCT DATASHEET DR DALI - P -44/220-240/1050

LED DRIVER DALI PERFORMANCE GEN 2 | Compact constant current LED driver with DALI dimming interface



Areas of application

- Luminaires of protection class I and II
- Indoor SELV installations
- Emergency lighting systems (DC capable)
- Attachment and installation in furniture
- Cove lighting
- Offices
- Education
- Storage areas
- Retail

Product benefits

- Flexible dip switch current settings on device in 50mA steps
- Push DIM application for easy control
- Low flickering enables high light quality as well as good visual comfort
- High-quality dimming of 1...100 %
- Toolless installation
- 5 years guarantee

Product features

- 1 channel DALI-2 certified LED driver
- Supply voltage: 220...240 V
- Operated with Safety extra-low voltage (SELV): < 60 V
- Available with output current range: up to 1,400 mA
- Type of installation: independent and built-in
- Suitable for emergency lighting fixtures acc.to EN 60598-2-2 with emergency output factor EOFI=15%
- Suitable for use in furnitures

TECHNICAL DATA

Electrical data

Nominal output power 44 W Nominal output voltage 220240 V Nominal output voltage 952 V Input voltage AC 198254 V Input voltage DC 176280 V U-OUT (working voltage) 60 V Type of ourrent DC Nominal output current DC Nominal output current 1050 mA ²) Inrush current 30 A Output current (100 Hz) 4/-5 % Output current (100 Hz) 4/-3 % Mains frequency 0/50/60 Hz Total harmonic distortion 6.9 % ³ Power factor A 0.95 ³ ECC efficiency 67 % ⁴ Device power loss 6.3 W Max. ECG no. on circuit breaker 10 A (8) 29 Max. ECG no. on circuit breaker 10 A (C) 29 Max. ECG no. on circuit breaker 13 A (C) 38 Max. ECG no. on ci	Nominal wattage	44.10 W
Nominal output voltage 952 V Input voltage AC 198254 V ¹) Input voltage DC 176280 V U-OUT (working voltage) 60 V Type of current DC Nominal current 224 mA Nominal output current 1050 mA ²) Inrush current 30 A Output current (100 Hz) 4/- 5 % Output ripple current (100 Hz) 4/- 3 % Mains frequency 0/50/60 Hz Total harmonic distortion 6.9 % ³] Power factor A 0.96 ³] ECG efficiency 87 % ⁴] Device power loss 6.3 W Max. ECG no. on circuit breaker 10 A (8) 29 Max. ECG no. on circuit breaker 16 A (2) 47 Max. ECG no. on circuit breaker 16 A (C) 47 Max. ECG no. on circuit breaker 16 A (C) 38 Max. ECG no. on circuit breaker 16 A (C) 68 Max. ECG no. on circuit breaker 16 A (C) 47 Max. ECG no. on circuit breaker 16 A (C) 58 Max. ECG no. on circuit breaker 16 A (C) 58 Max. ECG no. on circui	Nominal output power	44 W
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Output current tolerance+/- 5 %Output ripple current (100 Hz)+/- 3 %Mains frequency0/50/60 HzTotal harmonic distortion6.9 % %Power factor λ 0.95 %Power factor λ 0.95 %Device power loss6.3 WMax. ECG no. on circuit breaker 10 A (B)29Max. ECG no. on circuit breaker 10 A (B)47Max. ECG no. on circuit breaker 10 A (C)29Max. ECG no. on circuit breaker 10 A (C)29Max. ECG no. on circuit breaker 10 A (C)38Max. ECG no. on circuit breaker 10 A (C)38Max. ECG no. on circuit breaker 10 A (C)29Max. ECG no. on circuit breaker 10 A (C)29Max. ECG no. on circuit breaker 10 A (C)29Max. ECG no. on circuit breaker 10 A (C)38Max. ECG no. on circuit breaker 10 A (C)29Max. ECG no. on circuit breaker 10 A (C)29Max. ECG no. on circuit breaker 10 A (C)47Max. ECG no. on circuit breaker 10 A (C)58Surge capability (L-N)>1 kVSurge capability (L-N)>1 kVGalvanic IsolationSELVOperating frequency0/50/60 Hz	Nominal output current	1050 mA ²⁾
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Mains frequency0/50/60 HzTotal harmonic distortion6.9 % ³)Power factor λ0.95 ³)ECG efficiency87 % ⁴)Device power loss6.3 WMax. ECG no. on circuit breaker 10 A (B)29Max. ECG no. on circuit breaker 16 A (B)47Max. ECG no. on circuit breaker 16 A (B)58Max. ECG no. on circuit breaker 10 A (C)29Max. ECG no. on circuit breaker 13 A (C)38Max. ECG no. on circuit breaker 16 A (C)47Max. ECG no. on circuit breaker 16 A (C)47Max. ECG no. on circuit breaker 16 A (C)58Surge capability (L/N-Ground)2 kVSurge capability (L-N)>1 kVGalvanic isolationSELVOperating frequency0/50/60 Hz	Output current tolerance	+/- 5 %
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ECG efficiency87 % 4)Device power loss6.3 WMax. ECG no. on circuit breaker 10 A (B)29Max. ECG no. on circuit breaker 16 A (B)47Max. ECG no. on circuit breaker 25 A (B)58Max. ECG no. on circuit breaker 10 A (C)29Max. ECG no. on circuit breaker 13 A (C)38Max. ECG no. on circuit breaker 16 A (C)47Max. ECG no. on circuit breaker 16 A (C)58Surge capability (L/N-Ground)2 kVSurge capability (L-N)>1 kVGalvanic isolationSELVOperating frequency0/50/60 Hz	Total harmonic distortion	6.9 % ³⁾
Device power loss6.3 WMax. ECG no. on circuit breaker 10 A (B)29Max. ECG no. on circuit breaker 16 A (B)47Max. ECG no. on circuit breaker 25 A (B)58Max. ECG no. on circuit breaker 10 A (C)29Max. ECG no. on circuit breaker 13 A (C)38Max. ECG no. on circuit breaker 16 A (C)47Max. ECG no. on circuit breaker 16 A (C)58Surge capability (L/N-Ground)2 kVSurge capability (L-N)> 1 kVGalvanic isolationSELVOperating frequency0/50/60 Hz	Power factor λ	0.95 ³⁾
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Max. ECG no. on circuit breaker 25 A (C) 58 Surge capability (L/N-Ground) 2 kV Surge capability (L-N) > 1 kV Galvanic isolation SELV Operating frequency 0/50/60 Hz	Max. ECG no. on circuit breaker 13 A (C)	38
Surge capability (L/N-Ground) 2 kV Surge capability (L-N) > 1 kV Galvanic isolation SELV Operating frequency 0/50/60 Hz	Max. ECG no. on circuit breaker 16 A (C)	47
Surge capability (L-N) > 1 kV Galvanic isolation SELV Operating frequency 0/50/60 Hz	Max. ECG no. on circuit breaker 25 A (C)	58
Galvanic isolation SELV Operating frequency 0/50/60 Hz	Surge capability (L/N-Ground)	2 kV
Operating frequency 0/50/60 Hz	Surge capability (L-N)	> 1 kV
	Galvanic isolation	SELV
Power loss in stand-by mode 0.5 W	Operating frequency	0/50/60 Hz
	Power loss in stand-by mode	0.5 W

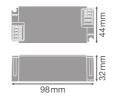
1) Permitted voltage range

2) +/- 5 %

3) Full load at 230 V/50 Hz / see graphs

4) Full load at 230 V/50 Hz / Typical / see graphs

Dimensions & Weight



Length	98.00 mm
Mounting hole spacing, length	90 mm
Width	44.00 mm
Height	32.00 mm
Cable cross-section, input side	0.751.5 mm ²
Cable cross-section, output side	0.51.5 mm ²
Prewired	No
Wire preparation length, input side	67 mm
Wire preparation length, output side	67 mm
Product weight	191.00 g

Colors & materials

Product color	White
Casing material	Plastic
Body material	Plastic

Temperatures & operating conditions

Ambient temperature range	-20+50 °C
Maximum temperature at tc test point	85 °C
Max.housing temperature in case of fault	110 °C
Temperature range in operation	-20+50 °C
Permitted rel. humidity during operation	2090 %

Lifespan

ECG lifetime	50000 h ¹⁾
Number of switching cycles	60000

1) $T_a = 50^{\circ}C$, T_c max, 10 % failure rate

Additional product data

Encapsulated	Yes

Capabilities

Dimmable	Yes
Dimming interface	DALI-2
Dimming range	1100 %
Overheating protection	Yes
Overload protection	Yes
No-load proof	Yes
Short-circuit protection	Yes
Max. cable length to lamp/LED module	2,0 m
Suitable for fixtures with prot. class	1711
Suitable for emergency lighting	Yes
Type of connection, output side	Push terminal

Certificates & Standards

Approval marks – approval	CE / CB / ENEC / EL / MM	
Standards	Acc. to EN 61347-1 / Acc. to EN 61347-2-13 / Acc. to EN 55015 / Acc. to EN 61547 / Acc. to EN 61000-3-2 / Acc. to EN 62384	
Protection class	II	
Type of protection	IP20	

LOGISTICAL DATA

Temperature range at storage	-25+60 °C

Accessories Optional

Product image	Product name	EAN
	DR AY ZB+DALI CLAMP DUO	4058075483125

DOWNLOAD DATA

	Documents and certificates	Document name	
POF	User instruction / safety instructions	LED DRIVER DALI P DIMMABLE	
PDF	Declarations of conformity	UKCA Declaration_DALI LED Power Supply	
PDF	Declarations of conformity	CE_DALI LED Power Supply	

Tender texts

Document name

Tender documents

LED DRIVER DALI PERFORMANCE G2 44220 2401050-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075779723	Folding box 1	104 mm x 52 mm x 38 mm	205.00 g	0.21 dm ³
4058075779730	Shipping box 10	311 mm x 154 mm x 116 mm	2279.00 g	5.56 dm ³

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.

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.