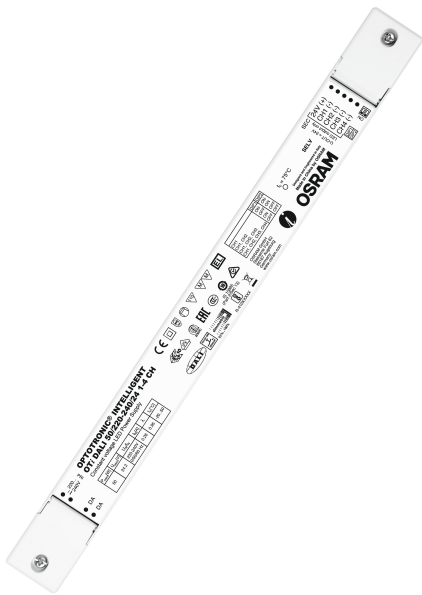# OSRAM

PRODUCT DATASHEET
OTi DALI 50/220…240/24 1…4 CH

CV Power supplies with DALI | CV Power supplies with DALI

Areas of application

– Cove lighting, wall washer, corridor, handrail, luminous ceilings
– Suitable for use in luminaires of protection class I and II

Product benefits

– Intelligent power matching thanks to Smart power supply
– Slim form factor for mounting on the cove or in linear luminaires
– No stroboscopic effect thanks to patented high PWM frequency management (> 2 kHz)
– Suitable for installation in emergency lighting systems according to EN 60598-2-22
– Available as single-channel or multi-channel with DT6 and DT8 in one device
– DALI message detection "LED Module failure"
– IP rating: IP20

Product features

– Dimmable via Touch DIM
– LED driver whose output power can be shared arbitrarily among the 2 or 4 channels
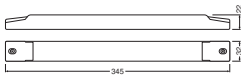– Dimming range: 0.1…100 %
– Line frequency: 0 Hz | 50 Hz | 60 Hz

TECHNICAL DATA

Electrical data

Nominal wattage	50.00 W
Nominal output power	50 W
Nominal voltage	220…240 V
Nominal output voltage	24 V [1]
Input voltage AC	198…264 V
Input voltage DC	176…276 V
U-OUT (working voltage)	24.2 V
Nominal current	0.26 A
Inrush current	43 A
Mains frequency	50…60 Hz
Total harmonic distortion	< 5 %
Power factor λ	> 0.95
ECG efficiency	92 %
Device power loss	5 W
Max. ECG no. on circuit breaker 10 A (B)	9
Max. ECG no. on circuit breaker 16 A (B)	15
Max. ECG no. on circuit breaker 25 A (B)	27
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Galvanic isolation	SELV
Power loss in stand-by mode	0.3 W

[1] DC voltage

Dimensions & Weight

Length	346.00 mm
Mounting hole spacing, length	300.6 mm
Width	32.00 mm
Height	22.00 mm
Cable cross-section, input side	0,5…2,5 mm²
Cable cross-section, output side	0.2…1.5 mm²

Wire preparation length, input side	6,0 mm
Wire preparation length, output side	5,0 mm
Product weight	191.00 g

Colors & materials

Casing material	Plastic
Body material	Plastic

Temperatures & operating conditions

Ambient temperature range	-20…+45 °C
Maximum temperature at tc test point	70 °C
Max.housing temperature in case of fault	115 °C
Permitted rel. humidity during operation	5…85 % [1]

[1] Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 h [1]

[1] At T_{case} = 70°C at T_c point / 10% failure rate

Additional product data

Encapsulated	Yes

Capabilities

Dimmable	Yes
Dimming interface	DALI-2
Dimming range	0…100 %
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
No-load proof	Yes
Short-circuit protection	Automatic reversible
Max. cable length to lamp/LED module	10 m
Suitable for fixtures with prot. class	I / II
Type of connection, output side	Screw terminal

Certificates & Standards

Approval marks – approval	CE / ENEC 10 / VDE / VDE-EMC / RCM / EAC / CCC / BIS
Standards	Acc. to EN 61347-1 / Acc. to EN 61347-2-13 / Acc. to EN 61547 / Acc. to EN 61000-3-2 / Acc. to EN 62384 / Acc. to EN 60598-2-22 / Acc. to EN 62386 / Acc. to EN 55015
Protection class	II

Type of protection	IP20

LOGISTICAL DATA

Temperature range at storage	-40…+85 °C

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	OPTOTRONIC LED Power Supply
PDF	Declarations of conformity	729793_EC OTI DALI 50,80/24
PDF	Certificates	Certificate of Approval NSW27729
PDF	Certificates	OTi DALI 50 80 CB DE1 63488 280420
PDF	Certificates	729924_INOTEC OTi DALI 50/220-240/24 1-4 CH
PDF	Certificates	729877_OTi DALI 50/220-240/24 1-4 CH Inotec Conformity
PDF	Certificates	CB Certificate
PDF	Certificates	VDE ENEC Certificate 40043863
PDF	Certificates	VDE EMC Certificate 40038482
PDF	Certificates	CCC certificate 2017011002969504
PDF	Certificates	729875_OTi DALI 50/220-240/24 1-4 CH EATON Conformity
PDF	Certificates	OT outdoor ENEC 40050684 100220
PDF	Certificates	VDE ENEC Certificate 40043863 appendix

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899452916	Unpacked 1			
4052899452923	Shipping box 20	370 mm x 170 mm x 116 mm	3998.00 g	7.30 dm³

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.