

## PRODUKT DATABLAD

### OT 100/120...277/800 2DIMLT2 P

OPTOTRONIC Outdoor | 2DIM/0...10 V – constant current LED drivers



#### BRUKSOMRÅDER

- Gate- og bybelysning
- Industri
- Egnet for armaturer med beskyttelsesklasser I og II

#### PRODUKTFORDELER

- 2DIM-funksjonalitet i én enhet (AstroDIM, 0...10 V)
- Høyt overspenningsvern: Opp til 6 kV (ved kapslingsgrad I eller II)
- Rask programmering uten nettspenning
- God fleksibilitet på grunn av bredt driftstemperaturområde på -40...55 °C
- Beskyttelse ved hjelp av dobbel isolering mellom nettilkobling og LED-utgang

#### PRODUKTEGENSKAPER

- Tilgjengelig med forskjellig wattstyrke: 50 W, 100 W, 110 W
- Inngangsspenning: 120...277 V
- Tilgjengelig med effektstrømområde: opptil 1 400 mA
- Fleksibel strøminnstilling med én ekstra ledning (LEDset2)
- AstroDIM for selvstendig dimming med fem uavhengige nivåer (astro-modus)
- Isolert 0...10 V-grensesnitt for ensrettede fjernstyringssystemer
- Overopphetingsvern med eksternt NTC- eller LEDset2-grensesnitt

## TEKNISK DATA

## Elektriske data

<b>Nominell spenning</b>	120...277 V
<b>Inngangsspenning</b>	108...305 V <sup>1)</sup>
<b>Nominell strøm</b>	0,49 A
<b>Nettfrekvensen</b>	50...60 Hz
<b>Effektfaktor <math>\lambda</math></b>	0,95/0,90 <sup>2)</sup>
<b>Total harmonisk forvrengning</b>	15 %
<b>Utstyr effekttap</b>	14 W <sup>3)</sup>
<b>Startstrøm</b>	55 A <sup>4)</sup>
<b>Maksimalt antall ECG på sikring 10 A (B)</b>	6 <sup>5)</sup>
<b>Maksimalt antall ECG på sikring 16 A (B)</b>	10 <sup>5)</sup>
<b>Maksimalt antall ECG på sikring 25 A (B)</b>	16 <sup>5)</sup>
<b>Spenningssvingning kapasitet (L/N-jord)</b>	6 kV <sup>6)</sup>
<b>Spenningssvingning kapasitet (L-N)</b>	6 kV <sup>7)</sup>
<b>Utgangseffekt</b>	100 W <sup>8)</sup>
<b>ECG effektivitet</b>	90 % <sup>9)</sup>
<b>Utgangsspenning</b>	50...186 V
<b>U-OUT</b>	200 V
<b>Utgangsstrøm</b>	350...800 mA
<b>Utgangsstrøm toleranse</b>	±5 %
<b>Rippelstrøm ved utgang (100 Hz)</b>	25 %
<b>Minimal utgangsstrøm</b>	105 mA
<b>Galvanisk isolering</b>	double/reinforced

<sup>1)</sup> Tillatt spenning

<sup>2)</sup> Minimum/Full belastning ved 230 V/Halv last v/ 230V

<sup>3)</sup> Maksimum

<sup>4)</sup>  $t_{width} = 230 \mu s$  (measured at 50 %  $I_{peak}$ )

<sup>5)</sup> Type B

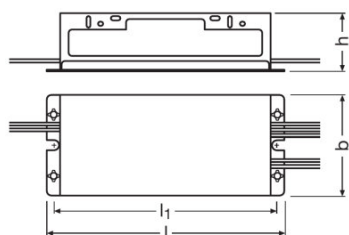
<sup>6)</sup> EQUI @ 12 Ohm acc. to EN 61547

<sup>7)</sup> @ 2 Ohm, acc. to EN61547

<sup>8)</sup> Partial Load 45...100 W / Ikke dimmet

<sup>9)</sup> At full load, default current and 230 V

Mål og vekt



<b>Lengde</b>	168,0 mm
<b>Bredde</b>	68,0 mm
<b>Høyde</b>	38,0 mm
<b>Avstand monteringshull, lengderetning</b>	152,0 mm
<b>Produktvekt</b>	740,00 g
<b>Cable/wire length, output side</b>	280 mm <sup>1)</sup>
<b>Kabel-/ledningslengde, primærsiden</b>	300 mm <sup>1)</sup>
<b>Kabel-/ledningslengde, kontroll inngang</b>	280 mm <sup>1)</sup>

<sup>1)</sup> ± 20 mm

Temperaturer & driftsvilkår

<b>Omgivelsestemperatur-område</b>	-40...+55 °C
<b>Maksimum temperatur v/ tc testpunkt</b>	85 °C <sup>1)</sup>
<b>Maks. dekseltemperatur i tilfelle feil</b>	120 °C
<b>Tillatt relativ fuktighet ved drift</b>	5...85 %

<sup>1)</sup> Maksimum ved Tc-punktet

Levetid

<b>ECG levetid</b>	80000 h <sup>1)</sup>
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<sup>1)</sup> Ved Tcase = 75°C ved tc punkt / 10% utfallsprosent

Forventet levetid

Produktnavn				
OT 100/120...277/800 2DIMLT2 P	ECG omgivelsestemperatur [ta]	55	45	40
	temperatur på tc-punkt [° C]	85	75	70
	levetid [t]	50000 <sup>1)</sup>	80000 <sup>1)</sup>	100000 <sup>1)</sup>

<sup>1)</sup> Max. 10% failure rate at tc max and input voltage 230 V<sub>AC</sub>

## Egenskaper

<b>Dimbar</b>	Yes
<b>Dimmingsgrensesnitt</b>	2DIM / 1...10 V / AstroDIM
<b>Dimmingsområde</b>	30...100 %
<b>Egnet armaturer med beskyttelsesklasse</b>	I / II
<b>Fast lumen funksjon</b>	Programmable
<b>Negativ temperaturkoeffisient tilførsel</b>	Ja <sup>1)</sup>
<b>Overopphetningsbeskyttelse</b>	Ja
<b>Overlastsvern</b>	Automatisk reversibel
<b>Kortslutningsbeskyttelse</b>	Ja
<b>Ubelastet bevis</b>	Ja
<b>Maksimum ledningslengde, ECG/lampe</b>	10 m
<b>Kabel-/ledningstyper, sekundærsiden</b>	AWG 18, solid <sup>2)</sup>
<b>Kabel-/ledningstyper, primærsiden</b>	AWG 18, solid <sup>2)</sup>
<b>Kabel-/ledningstyper, styringstilførsel</b>	AWG 18, solid <sup>2)</sup>

<sup>1)</sup> 0...-20 % of set resistor value

<sup>2)</sup> Acc. to 1452 style

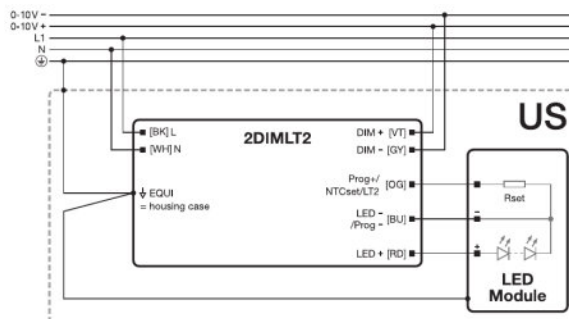
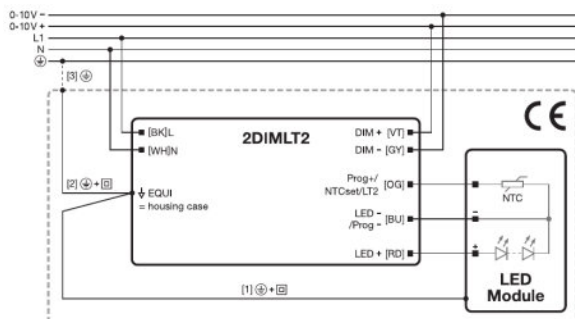
## Sertifikater og standarder

<b>Beskyttelses type</b>	IP64
<b>Standarder</b>	Acc. to EN 61347/Acc. to EN 61347-2-13/Acc. to EN 62384/Acc. to EN 55015:2006 + A1:2007 + A2:2009/Acc. to EN 61547/Acc. to FCC 47 part 15 class A/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/UL-8750
<b>Godkjenningsmerke - godkjenning</b>	CE / ENEC 15 / UR / CQC

## Logistiske data

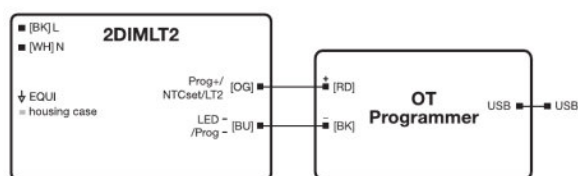
<b>Temperaturområde ved lagring</b>	-25...80 °C
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Koblingsskjema



Wiring diagram

Wiring diagram



Wiring diagram








UTSTYR/TILBEHØR

- OT programmerbar maskinvare for konfigurering av 2DIM ECG-er er nødvendig
- Programmerbar ved hjelp av programvaren Tuner4TRONIC

**ADDITIONAL PRODUCT INFORMATION**

- 800 mA type: Default output current is 700 mA without any resistor connected to the LEDset port.
- 1250 mA type: Default output current is 1000 mA without any resistor connected to the LEDset port.
- 1400 mA type: Default output current is 1000 mA without any resistor connected to the LEDset port.
- The LEDset2 interface is disabled by default and needs to be activated by the programming software. In this case the LEDset2 interface is activated the external thermal protection feature is disabled.
- The driver withstands an input voltage of up to 350 Vac for a maximum of two hours.
- The driver may shut down the load if the input voltage of the load is below the allowed minimum output voltage until the short circuit is removed or the correct load is connected and a power off/on cycle is performed.
- In case the input voltage of the load exceeds the output voltage range of the driver, it automatically reduces the output current to keep the output voltage controlled to the maximum allowed output voltage.
- The driver automatically reduces the output current in case the maximum allowed output power is exceeded, as long as the input voltage of the load is within the declared output voltage range of the driver. In all other cases the driver may shut down the load.
- The driver may shut down in case no load is connected to the driver output until the correct load is connected and a power off/on cycle is performed. Hot-plug of the load or external switching on the secondary side is not allowed.
- The EQUI (housing) shall be connected to the heat sink of the LED module to improve the surge withstand capability of the system and EMI in critical luminaires.
- By default the LEDset / NTCset / Prog+ port is set as NTCset port in resistor based mode with following values: start derating: 6.3 kOhm, end derating 5.0 kOhm, derating level 50 %.
- The default dimming mode is 0...10 V, AstroDIM-PD is disabled.- 0...10 V: 30 % minimum dimming level
- The constant lumen feature is disabled by default.
- If any output level is below the physical min level, the physical min level will be used.
- Dimming down to 14 % of the maximum rated output current could be enabled through the programming software, but the compliance with EN 61000-3-2 must be checked below 30 %.
- The driver is intended for built-in use. The luminaire manufacturer is responsible to prevent direct exposure for example to sunlight, water, snow, ice.
- Time to reach the set output current upon start-up is less than 4 s.
- Programming of the driver via Prog+ and Prog- is only allowed without powering it via L/N.
- For further details please consult the 2DIMLT2 application guide.

**LAST NED DATA**

Fil	
	Brochures 616680_Technical application guide 2DIMLT2 P LED drivers (GB)
	Certificates 617033_CCC Certificate OT 100120-277800 2DIMLT2 P
	Certificates 664162_CB Zertifikat OT 100 800 2DIMLT2 P
	Declarations of conformity 725871_Certificate of analysis OT100
	Declarations of conformity 545682_EC-Conformity OT 50120-277xxx 2DIMLT2 P
	Declarations of conformity 646953_CB ENEC Information
	Declarations of conformity 647100_ENEC Certificate OT 100 2DIMLT2 P



Declarations of conformity  
651655\_UL Conformity OT 100\_110120\_277xxx 2DIMLT2 P



On-Pack-Info  
615707\_Instruction sheet OT 100 800 2DIMLT2 P

### LOGISTIKK DATA

Product kode	Produkt beskrivelse	Forpakkings enhet (stk/enhet)	Dimensjoner (lengde x bredde x høyde)	Volum	Brutto vekt
4052899253414	OT 100/120...277/800 2DIMLT2 P	NO: VS 20	358 mm x 188 mm x 220 mm	14.81 dm <sup>3</sup>	15346,00 g

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.

### ANSVARFRASKRIVELSE

Endres uten varsel. Sørg alltid for å bruke den nyeste versjonen.