



Specification Sheet

Xitanium 60 W 0.15-0.5A 220V IA21 230V

Xitanium non-isolated DALI drivers are ideal for High Voltage (HV) linear systems and stand on four pillars: quality of light, reliability, flexibility and wireless control connectivity.

By using Xitanium LED drivers in your luminaires, you can be sure to offer your customers high quality of light without visual flicker and stroboscopic effects. The reliability of our drivers is based on in-depth electronics knowledge and extensive testing.

Finally, application-oriented operating windows offer the flexibility required to provide the stable lumen output and light quality levels that lighting specifiers and architects demand.

Xitanium 60 W

Features

- Configurable operating windows (AOC) via SimpleSet (MultiOne)
- Adjustable Light Output (ALO)
- Constant Light Output (CLO)
- Dimming supported during DC operation (DCemDim)
- Energy Reporting

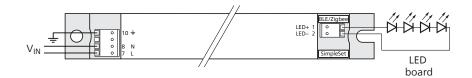
Benefits

- High quality of light
- High reliability
- Future-proof flexibility
- Flicker and noise free dimming due to amplitude modulation dimming (AM)
- Interact Ready

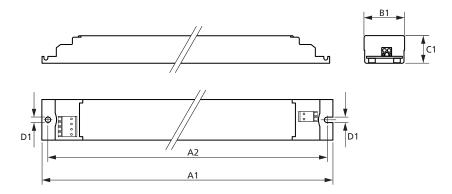
Applications

- Offices
- Healthcare
- Education
- Indoor parking areas
- Retail: supermarkets, shopping malls
- Industry

Wiring diagram



Dimensional drawing



Specifications

| Physical information | | |
|--|---|--|
| Length (A1) | 280 mm (11.0 in) | |
| Mounting hole distance (A2) | 270 mm (10.6 in) | |
| Width (B1) | 30 mm (1.18 in) | |
| Height (C1) | 21 mm (0.83 in) | |
| Mounting hole diameter (D1) | 4.1 mm (0.16 in) | |
| Weight | 0.180 kg (6.67 oz) | |
| Input wire cross-section (solid conductor wire) | 0.5 to 1.5 mm ² (AWG-20 to AWG-16) | |
| Input wire strip length | 8 to 9 mm (0.31 to 0.35 in) | |
| Output wire cross-section (solid wire cross-section) | 0.5 to 1.5 mm ² (AWG-20 to AWG-16) | |
| Output wire strip length | 8 to 9 mm (0.31 to 0.35 in) | |
| Maximum cable length | 2 m (6.56 ft) total length of the wiring including LED module, one way. For longer wiring verify the EMI behavior of the luminaire. | |
| Environmental data | | |
| Ambient temperature | –25 to +50 °C (-13 to +122 °F), higher ambient temperature allowed as long as T _{case-max} is not exceeded | |
| T _{case-max} | 75 °C (167 °F), lifetime 50 000 hours | |
| T _{case-life} | 65 °C (149 °F), measured at T _c point | |
| T _{housing-max} | 110 °C (230 °F), In case of a failure, inherent by design | |
| Operating relative humidity | 10 to 90%, non condensing | |
| Storage temperature | –25 to +85 °C (–13 to +185 °F) | |
| Storage relative humidity | 5 to 95%, non condensing | |

| Electrical input data | | |
|-------------------------------|---|--|
| Rated input voltage range | 220 to 240 V _{ac} | |
| Nominal rated input voltage | 230 V _{ac} | |
| Nominal rated input frequency | 50 to 60 Hz | |
| Rated input current | 0.3 A; at rated output power and rated input voltage | |
| Rated input power | 66 W; at rated output power and rated input voltage | |
| Power factor | 0.9; at rated output power and rated input voltage | |
| Total harmonic distortion | 20%; at rated output power and rated input voltage | |
| Dimming range | 1 to 100% with absolute minimum output current 3.3 mA | |
| Efficiency | 92%; at rated output power and rated input voltage | |
| Rated input voltage DC range | 186 to 250 V _{dc} ; nominal range | |
| Input voltage AC range | 198 to 264 V _{ac} ; operational range | |
| Input frequency AC range | 45 to 66 Hz; operational range | |
| Input voltage DC range | 168 to 275 V _{dc} ; operational range | |

| Electrical output data | | |
|-------------------------------------|---|--|
| Regulation method | Constant current | |
| Output voltage | 50 to 220 V _{dc} | |
| Maximum output voltage | 250 V (rms) | |
| Output current | 0.15 to 0.50 A | |
| Minimum programmable output current | 0.150 A | |
| Minimum dimming output current | 3.3 mA; dimming via Zigbee | |
| Output current tolerance | ±5% | |
| Output current ripple LF | ≤ 4%; ripple = peak / average, < 2 kHz | |
| Output P _{st} LM | ≤ 0.5 | |
| Ouput SVM | ≤ 0.5 | |
| Output power | 17 to 60 W | |

Inrush current data

| I _{peak} inrush current | 19 A, input voltage 230 V |
|--|--|
| T _{width} inrush current | 230 μs, input voltage 230 V measured at 50% I _{peak} |
| Drivers per circuit breaker 16 A type B | ≤ 24 pcs, indicative value |

Lifetime

| Driver lifetime | 100 000 hours, measured temperature at $T_{case-life}$. Maximum failures = 10% |
|---------------------------|---|
| Number of ON/OFF switches | > 100 000 |

Insulation per IEC61347-1

| Between input and output LED board combination | none |
|---|-------------------------|
| Housing | basic to in- and output |

Driver touch current / protective conductor current

| ontribution not |
|-----------------|
| 2 |

Surge immunity

| Mains surge immunity (diff. mode) | 1 kV, L- N Acc. IEC61000-4-5 2 Ohm, 1.2/50 μs, 8/20 μs |
|-----------------------------------|--|
| Mains surge immunity (comm. mode) | 2 kV, L/N - PE Acc. IEC61000-4-5 12 Ohm, 1.2/50 μs, 8/20 μs |

Electrical data controls input

| Control method | Wireless, Zigbeeand and BLE |
|----------------|-----------------------------|
| Dimming range | 1 to 100% |
| | |

Compliance

| IP rating | IP20 |
|--------------|---------------------------|
| Approbations | CE, UKCA, RoHS, ENEC, CCC |

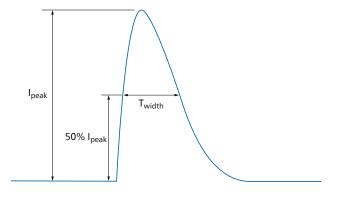




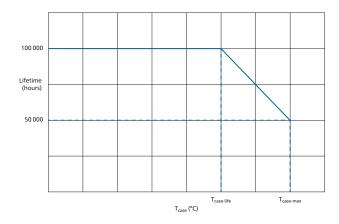




Inrush current



Lifetime



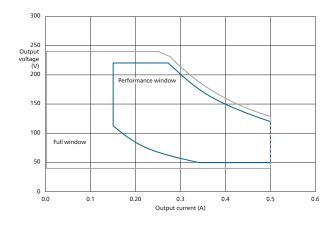
Programmable features

| Item | Available | Default setting | Condition |
|--|---------------------|-----------------|--|
| Set Adjustable Output Current (AOC) | SimpleSet, Wireless | 150 mA | |
| Constant Light Output (CLO) | ✓ | OFF | |
| Adjustable Light Output (ALO) | ✓ | OFF | |
| DALI 253 M | ✓ | | |
| Minimum dimming level | ✓ | 1% | |
| DC emergency (DCemDim) | ✓ | ON | Default 15%, EOFx range = 1 to 100% (EOFx = DCemDIM level) |
| OEM Write Protection (OWP) | ✓ | OFF | |
| Luminaire Info | ✓ | | |
| T _x power | ✓ | 10 dBm | |

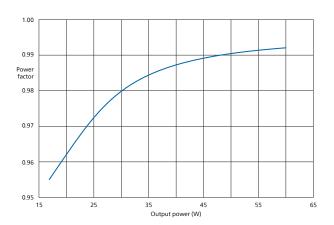
Features

| Open load protection | ✓ | Automatic recovering |
|---|----------|----------------------|
| Short circuit protection | ✓ | Automatic recovering |
| Over power protection | ✓ | Automatic recovering |
| Hot wiring | _ | |
| Suitable for fixtures with protection class | I | per IEC60598 |
| Output overvoltage detection | ✓ | |
| Energy metering | ✓ | accuracy 4% |

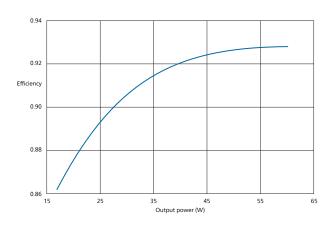
Operating window



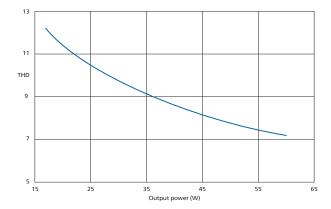
Power factor versus output power



Efficiency versus output power



THD versus output power



Ordering Data

| Туре | MOQ | Order code |
|---------------------------------------|-----|----------------|
| Xitanium 60W 0.15-0.5A 220V IA21 230V | 24 | 9290 016 96506 |

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