

LED Driver

EUCO ARENA SPORT 600W Series

EUCO ARENA SPORT

Highlights & Features



- Output power: max 600W
- Wide input voltage: 198-440VAC
- Ultra-high Efficiency 97.5%
- Control method: DALI-2 & D4i and RDM/DMX
- Programmable output current range 700-2000 mA
- Constant Lumen Output (CLO)
- Smart Timer Dimming (STD)
- Wide dimming range 0.1-100%
- High-accuracy integrated power metering
- Input surge protection: DM 6kV; CM 10kV
- Max remote distance 300 meters
- Reliable IP66 input/output connectors
- Low current ripple (typ.1%) for HDTV broadcasting
- Afterglow effect free

Standards & Marks



Model Number: EUCO-600200G□□□

Unit Weight: ~2.2kg

Dimensions (L × W × H): 285x100x49 mm

General Description

Delta EUCO ARENA SPORT 600W series with DALI-2 & D4i or RDM/DMX control functions are constant current non-isolated LED drivers. It makes an ideal solution for Stadium Lighting due to its low ripple current level and flicker free, which is indispensable for Live TV broadcasting conditions. Also due to its robust design, the EUCO-600W is well-suited for industrial lighting, high mast lighting, and horticulture applications. This driver was specifically conceived and intended to offer remarkably high efficiency to achieve substantial energy savings. Additionally, a wide dimming range, advanced control, and autonomous dimming (Midnight Centric Timer) ensure adaptability for dynamic atmospheres and seamless event adjustments. The EUCO-600W driver offers a remote-control function, allowing the driver to be installed up to 300 meters from the luminaire, which provides greater flexibility in installation, operation, and easy maintenance for indoor and outdoor applications.

Model Information

| Model Number | Input Voltage Range | Rated Output Power | Output Channel | Control Interface |
|------------------|--|--------------------|----------------|-------------------|
| EUCO-600200GI□□□ | 220/400Vac(typical) 198~440Vac(range) | 600W | 1 | DALI-2 & D4i |
| EUCO-600200GD□□□ | | 600W | 1 | RDM / DMX |

Model Numbering

| EU | C | O | 600 | □□□ | G | □ | □ | □□ |
|-------------|------------------|---------|-----------------------|----------------------------------|---------------|--|--|--|
| Market Code | Constant Current | Outdoor | Output power 600:600W | Output Current 200:2000mA (Max.) | i-Programming | Function I: DALI-2 & D4i D: RDM / DMX | Variable A – connector (with NTC) C – connector (with PE) D – cable (with PE) | Mode series, can be 0~9, A~Z or blank. |

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Specifications

Input Ratings / Characteristics

| Specification | Min. | Typ. | Max. | Conditions |
|-------------------------------|--------|---------|--------|--|
| Nominal Input Voltage | 220Vac | - | 400Vac | |
| Input Voltage Range | 198Vac | - | 440Vac | |
| Nominal Input Frequency | - | 50/60Hz | - | |
| Input Frequency Range | 47Hz | - | 63Hz | |
| Nominal Input Current | - | 2.85A | 3.1A | At 220Vac, 25°C, 600W output |
| | - | 1.54A | 1.82A | At 400Vac, 25°C, 600W output |
| Efficiency ¹ | - | 96.2% | - | At 220Vac, 25°C, 300V/2A |
| | - | 96.6% | - | At 220Vac, 25°C, 550V/1.1A |
| | - | 96.8% | - | At 400Vac, 25°C, 300V/2A output |
| | - | 97.5% | - | At 400Vac, 25°C, 550V/1.1A output |
| Standby Power Consumption | - | 0.40W | - | At 230Vac/50Hz, Dim OFF, in compliance with Erp (EU) 2019/2020 |
| | - | 0.89W | - | At 400Vac, Dim OFF |
| Power Factor | - | 0.99 | - | At 220Vac, 25°C, 600W output |
| | - | 0.98 | - | At 400Vac, 25°C, 600W output |
| Total Harmonic Distortion | - | 8% | - | At 220Vac, 25°C, 300V/2A output |
| | - | 13% | - | At 400Vac, 25°C, 300V/2A output |
| Inrush Current (Apk / 50%-us) | - | 8A | - | At 220Vac, 50%Apk to 50%Apk time: 2ms |
| | - | 15A | - | At 400Vac, 50%Apk to 50%Apk time: 2ms |
| Power metering accuracy | - | ±1% | ±2% | At 220Vac~400Vac, 100% load |

1. 100% Load and tested after 30 minutes warming up.

Output Ratings / Characteristics

| Specification | Min. | Typ. | Max. | Conditions | |
|-----------------------------------|-----------------|--------|---------|---|--|
| Output Channels | - | 1 | - | | |
| Default Output Current | - | 1200mA | - | | |
| Programmable Output Current Range | 700mA | - | 2000mA | Operation range refer to Appendix 1 | |
| Output Voltage Range | 200V | - | 550V | | |
| Max. No Load Output Voltage | - | - | 600Vrms | | |
| Total Output Power | - | - | 600W | | |
| Output Power Range | - | - | 600W | | |
| Output Current Tolerance | - | - | ±3% | 700~2000mA | |
| Output Current Ripple | - | 1% | 2% | (ripple = (pk-pk)/avg), at low frequency(<8kHz) | |
| | - | 10% | 18% | (ripple = (pk-pk)/avg), at high frequency(>15kHz) | |
| Output Remote Distance | - | - | 300m | The total voltage drop on the cable should be within 5V | |
| Turn on Delay Time | DALI version | - | 0.7s | 1s | Compliant with clause 9.13 of IEC 62386-102:2014 |
| | RDM/DMX version | - | 0.7s | 1s | Connecting to the controller correctly. |
| | | 1.25s | - | - | No controller or incorrect connection to the controller, compliant with clause 3.5 of ANSI E1.37-1:2012. |

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Auxiliary Power Supply Ratings / Characteristics ²

| Specification | Min. | Typ. | Max. | Conditions |
|--|-------|-------|---------------------|---|
| Integrated 24V Auxiliary Power Supply | | | | |
| Operating Voltage | 21.6V | 24.0V | 26.4V | 0.1W~6.0W, reference to "DA-". |
| High frequency ripple of operating voltage | - | - | 1.0 V _{pp} | 21.6V~26.4V, f _{ripple} > 10kHz |
| Voltage in no-load condition | - | - | 30.0V | Output power < 0.1W |
| Average output power capability | - | 3.0W | - | CC mode load : 4.0mA~125mA (0.1W~3W). |
| Pulsed output power capability | - | 6.0W | - | Dynamic CC mode load: peak load = 250mA/2.2ms and avg load = 4.0mA~125mA/3.8ms. |
| Start-up time | - | - | 0.6s | From AC power on to Vaux increases and reaches 21.6 V, Mains is applied at any phase angle. |
| Integrated DALI-2 Bus Power Supply | | | | |
| DALI-2 Bus voltage | 12V | - | 22.5V | CC load: 0~50mA, integrated bus power supply is pre-configured to a disabled state, and it can be activated via GUI or DALI controller. |
| Over Current Protection | 50mA | - | 62.5mA | Auto recovery and no component damaged. Limits output current to 50~62.5mA when output is short-circuited. |

2. This part applies to DALI version only.

Dimming Control

| Specification | EUCO-600200GI□□□ | EUCO-600200GD□□□ |
|-------------------|------------------|--|
| Control interface | DALI-2 | RDM/DMX |
| Dimming range | Logarithmic | 0.1%-100% Minimum output current is limited to 2mA. |
| | Linear | 0.4%-100% Minimum output current is limited to 2mA |

Control Interface Standards

| Specification | EUCO-600200GI□□□ | EUCO-600200GD□□□ |
|-----------------------------|---|---|
| Control interface standards | DALI-2 & D4i IEC 62386-101 Ed 2.0 IEC 62386-102 Ed 2.0 IEC 62386-207 Ed 2.0 IEC 62386 part 150: Integrated 24Vdc auxiliary power supply IEC 62386 part 250: Integrated bus power supply ³ IEC 62386 part 251: Memory bank 1 extension (luminaire data) IEC 62386 part 252: Energy report IEC 62386 part 253: Diagnostics and maintenance | RDM/DMX ANSI E1.11 DMX512A ANSI E1.20 RDM – Remote Device Management ANSI E1.37-1 Additional message sets for dimmer |

Additional Dimming Features:

3 | All parameters are specified at 25°C ambient for all products unless otherwise indicated.
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| Specification | EUCO-600200G□□□□ |
|-----------------------------|--|
| Smart Timer Dimming (STD) | CLO is a function to make the brightness consistent by compensating the ageing of the light source over the lifetime. It's available in GUI to set starting dimming level (for example 90%) and end of life of the product (for example 50khrs), so that the driver by counting its functioning hours can do a linear interpolation in between starting dimming level at t=0hrs, and go to 100% at t=end of life. This function is not activated by default. For more details, please refer to "LNA/EUCO Series Programming Tool User Manual". |
| Constant Lumen Output (CLO) | CLO is a function to make the brightness consistent by compensating the ageing of the light source over the lifetime. It's available in GUI to set starting dimming level (for example 90%) and end of life of the product (for example 50khrs), so that the driver by counting its functioning hours can do a linear interpolation in between starting dimming level at t=0hrs, and go to 100% at t=end of life. This function is not activated by default. For more details, please refer to "LNA/EUCO Series Programming Tool User Manual". |

Mechanical Characteristics

| Specification | EUCO-600200G□□□□ | |
|------------------------|---|--|
| Casing | Aluminum case, Color : anodized(Nature) | |
| Dimensions (L x W x H) | 285x100x49 mm | |
| Unit Weight | ~2.2 kg | |
| Cooling System | Natural Convection | |
| CONNECTION | EUCO-600200GIA□□ | EUCO-600200GDA□□ |
| INPUT | Wieland RST 20I3F S2 M01VH GN0, with the definition of L1, L2, PE | |
| OUTPUT | Amphenol CC-03PMFS-QC801P, with the definition of NTC, V+, V- | |
| DIMMING | Amphenol AD-03PMMS-QC8001 DA+, DA-, +24V | Amphenol AD-03PMMS-QC8001 D1+, D1-, COM |
| CONNECTION | EUCO-600200GIC□□ | EUCO-600200GDC□□ |
| INPUT | Wieland RST 20I3F S2 M01VH GN0, with the definition of L1, L2, PE | |
| OUTPUT | Amphenol CC-03PMFS-QC801P, with the definition of PE, V+, V- | |
| DIMMING | Amphenol AD-03PMMS-QC8001 DA+, DA-, +24V | Amphenol AD-03PMMS-QC8001 D1+, D1-, COM |
| CONNECTION | EUCO-600200GID□□ | EUCO-600200GDD□□ |
| Input Cable | Line(L): Brown, Neutral(N): Blue, PE: Yellow & Green, SOOW & H07RN-F & 2PNCT, 3C/1.0 mm ² (17AWG), Length: 300mm±25mm | |
| Output Cable | Positive(V+): Brown, Negative(V-): Blue, PE: Yellow & Green, SOOW & H07RN-F & 2PNCT, 3C/1.0 mm ² (17AWG), Length: 240mm±25mm | |
| Control Cable | Positive (DA+): Purple, Negative (DA-): Pink, +24V: Black & White, PLTC, 22 AWG, Length: 300mm±25mm | Positive(D1+): Purple, Negative(D1-): Pink, COM: Black & White, PLTC, 22 AWG, Length: 300mm±25mm |

Environment & Package

| Specification | EUCO-600200GI□□□ | EUCO-600200GD□□□ |
|--------------------------|------------------|------------------|
| Ambient Temperature | Operating | -40 °C to +60 °C |
| | Storage | -40 °C to +85 °C |
| Maximum Case Temperature | +85 °C | |

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|-----------------------------------|---|--------------------------------|
| Lifetime Case Temperature | +70°C | |
| Relative Humidity | Operating | 10% to 95% RH (Non-Condensing) |
| | Storage | 5% to 95% RH (Non-Condensing) |
| Audible Noise (30cm distance) | Sound Pressure Level (SPL) < 24dBA | |
| Ingress Protection classification | IP66 | |
| Drop Test (Non-Operating) | According to ASTM D-775, 40cm height drop to concrete floor as below drawing, total 10 times. | |
| | | |
| Vibration (Non-Operating) | IEC 60068-2-6, Random: 5 Hz to 10 Hz (1G); 30 min per axis for all X, Y, Z direction | |
| Packing | 4pcs per carton | |

Protections

| Specification | | Min. | Typ. | Max. | Notes |
|---|------------|--------|------|---------|--|
| Input Under Voltage Protection(IUVP) | Protection | 160Vac | - | 180Vac | The driver shuts down and then restarts to normal status when the fault condition is cleared. |
| | Recovery | 170Vac | - | 190Vac | |
| Input Over Voltage Protection(IOVP) | Protection | 460Vac | - | 480Vac | |
| | Recovery | 440Vac | - | 460Vac | |
| Open Load & Output Over Voltage Protection | Protection | - | - | 600Vrms | Hiccup mode. The output voltage shall not exceed 600Vrms under no load, open load or other over voltage conditions. |
| Constant Output Power Protection | | - | 610W | - | Output power limited. The driver shall come back to its original programmed current after the fault condition is cleared. |
| Output Short Circuit Protection | | - | - | - | Hiccup mode |
| Internal Over Temperature Protection | | 85°C | - | 95°C | Output power derating. Refer to Appendix 6 "Internal Over Temperature Protection" for more details. |
| Programmable External Over Temperature Protection | | 80°C | - | 110°C | Output power derating. Refer to Appendix 7 "Programmable External Over Temperature Protection" for more details. |

Electro-Magnetic Compatibility (EMC)

| Specification | Standards |
|-------------------------------------|-------------------------|
| EMC-Emission Characteristics | |
| Radiated Emission | EN55015, GB/T17743 |
| Conducted Emission | EN55015, GB/T17743 |
| Harmonic Current Emission | EN61000-3-2, GB 17625.1 |
| Voltage Fluctuation & Flicker | EN61000-3-3 |
| EMC-Immunity Characteristics | |
| Electrostatic Discharge(ESD) | EN 61000-4-2 |

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| | |
|---|--|
| Radio Frequency Electro-magnetic Fields | EN 61000-4-3 |
| Electrical Fast Transient (EFT) | EN 61000-4-4 |
| Surge(AC Mains) | EN 61000-4-5 - Common Mode: 10kV ³ (Line to Earth, Neutral to Earth) - Differential Mode: 6kV (Line to Neutral) |
| Conducted Disturbance | EN61000-4-6 |
| Voltage Dip & Interruptions | EN 61000-4-11 |

3. Level B, the peak of residual common mode voltage pulse from output +/- to Earth is typically around 2.5kV.

Reliability Data

| Specification | Test Conditions / Notes |
|---------------|---|
| Lifetime | 50,000 hours applicable for 220Vac to 400Vac(50/60Hz) @100% of load, @ Ta 45°C Refer to "Lifetime versus Case Temperature Curve" |
| MTBF | 475khrs at Ta=+45°C Telcordia SR-332 |

Safety Agencies Approvals

| Specification | Test Conditions / Notes | |
|---------------|-------------------------|--|
| ENEC | MARK | EN 61347-2-13:2014, EN 61347-2-13/A1:2017 EN 61347-1:2015, EN 61347-1:2015/A1:2021 EN IEC 62384:2020 |
| CE | MARK | CE Declaration of Conformity. |
| CB | REPORT | EN 61347-1:2015, EN 61347-1:2015/A1:2021 EN 61347-2-13:2014, EN 61347-2-13/A1:2017 |
| UKCA | MARK | BS EN 61347-2-13: 2014+A1:2017 |
| RCM | MARK | AS 61347-2-13: 2018 AS/NZS 61347-1: 2016+A1 |
| Isolation | | Class I, input to output: non-isolation, RDM/DMX or DALI to input/output: reinforced isolation. |
| RoHS | | RoHS 2.0 Directive (EU) 2015/863 |
| REACH | | In compliance |

Miniature Circuit Breaker Configuration

The maximum number of LED drivers connectable to a single MCB is recommended in the following table for maximum 600W and each nominal input voltage. Due to the differences in application conditions and different kinds of miniature circuit breakers available on the market, this table is just for reference.

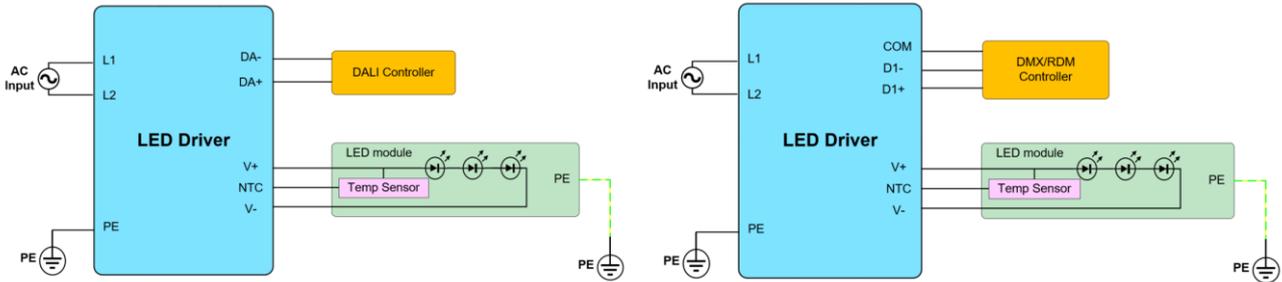
| Input Voltage | MCB Type | 10A | 16A | 20A | 25A | 32A | 40A | 63A |
|---------------|----------|-----|-----|-----|-----|-----|-----|-----|
| 220Vac | B/C/D | 3 | 5 | 6 | 8 | 10 | 13 | 20 |
| 400Vac | B | 2 | 3 | 4 | 5 | 7 | 8 | 13 |
| | C | 4 | 6 | 7 | 9 | 11 | 14 | 22 |
| | D | 6 | 9 | 11 | 14 | 18 | 23 | 35 |

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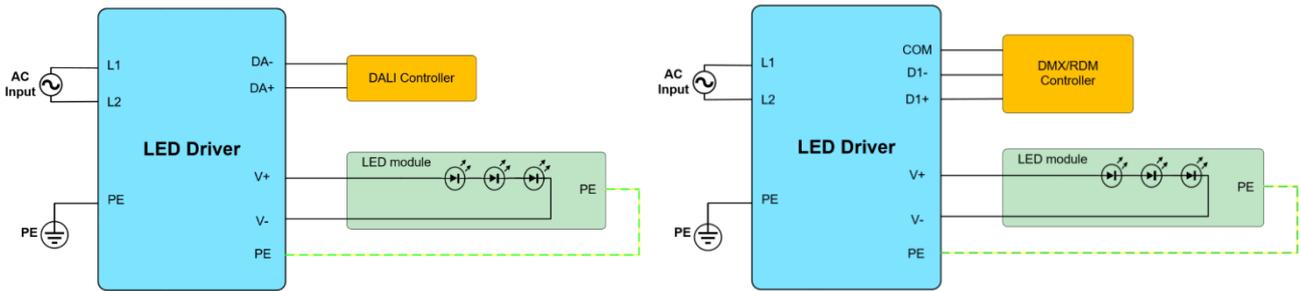
Electrical Connection

1. A version (Output with NTC)



Note: There's no PE port in driver output for the luminaire connection, instead, the mounting hole of driver chassis could be connected for this function.

2. C and D version (Output with PE)



Programming Configuration

Common setting functions and implementation methods/conditions are shown in the following table, more functions and details please refer to the **LNA/EUCO Series Programming Tool User Manual**.

| Item | | DALI | DMX |
|---------------------------------------|-------------------------------|--|---------|
| Setup | Tool Connection | DA+,DA- | D1+,D1- |
| | AC power supply | ■ | ■ |
| | Load Connection | ○ | ○ |
| Tool | Delta Programming Tool | SDDV1505UAC (SDDV1505UAB, SDPTDV05UAB) | |
| Configurable Parameters and Functions | Max. current programming | √ | √ |
| | Default output current | √ | √ |
| | Luminaire OTP setting | √ | √ |
| | Constant lumen output setting | √ | √ |
| | Smart timer dimming | √ | √ |
| | Software update | √ | √ |

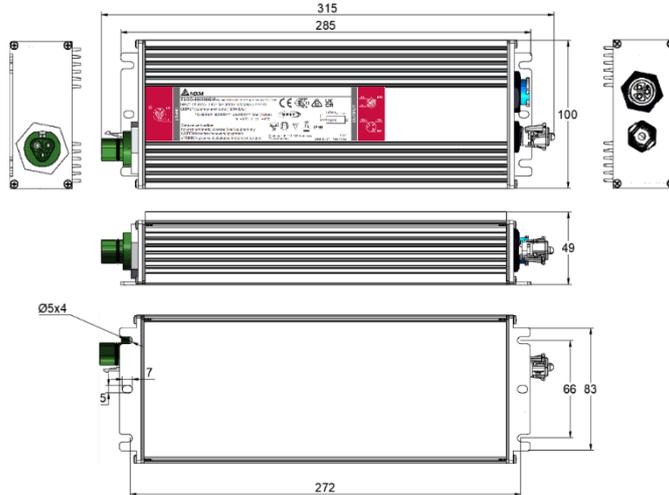
Note: ■ Required, ○ Optional, √ Available.

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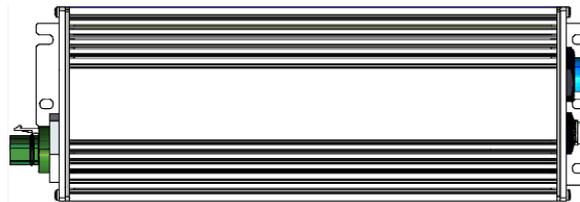
Physical Dimensions

1. A and C version



Unit: mm

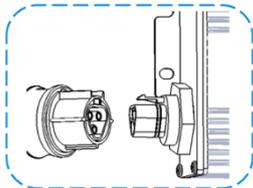
AC CONNECTOR
WIELAND
RST 20i3F S2 M01VH GN0



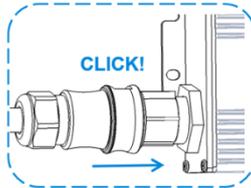
DC CONNECTOR
AMPHENOL
CC-03PMFS-QC801P

DIMMING CONNECTOR
AMPHENOL
AD-03PMMS-QC8001

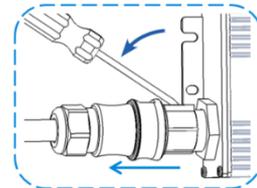
a) Connect to the AC Input



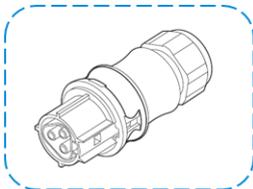
Align key features of input connector on driver with connector on luminaire power cord.



Push connectors together until a click is heard.



To disassemble connectors, insert and twist a small blade screwdriver and then separate connectors.



custom AC input connection, use a Wieland RST20i3 green connector (96.031.4055.7 OR 96.031.0055.7)

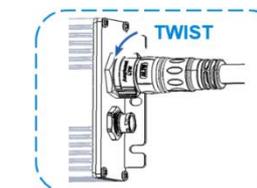
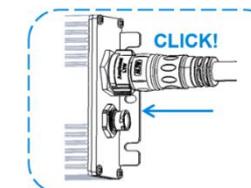
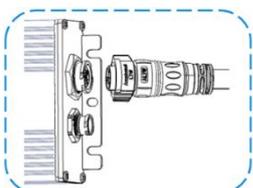


Connector pin-out

| Pin | AC Input Connector |
|-----|--------------------|
| 1 | L1 |
| 2 | L2 |
| 3 | PE |

Pin Arrangement

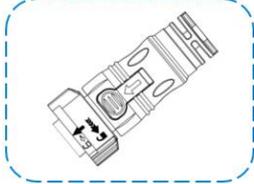
b) Connect to the LED Output



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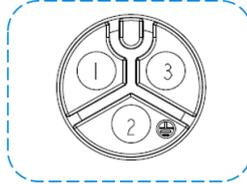
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Align key features of larger output connector on driver with connector on luminaire cable.



Custom DC output connection, use a Amphenol X-lok C size connector (CC-03AFMM-QL8EXX(Overmolded with cable) OR CC-03BFMB-QL8APA(Field installable))

Push connectors together until the lock ring has snapped into place and a click is heard.



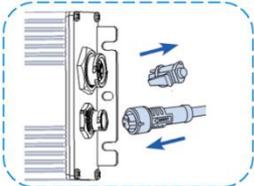
Connector pin-out

To disassemble connectors, twist the lock ring and then separate connectors.

| Pin | A version | C version |
|-----|-----------|-----------|
| 1 | V+ | V+ |
| 2 | NTC | PE |
| 3 | V- | V- |

Pin Arrangement

c) Connect to the Control/Dimming Output



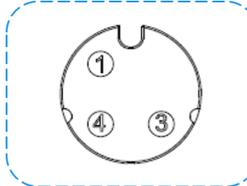
Remove cap, align key features of Dimming connector on driver with connector on luminaire cable



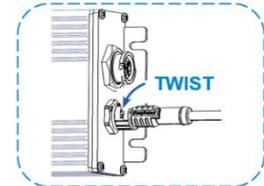
Custom Dimming connection, use a Amphenol X-lok A size connector (AD-03BFFM-QL8DXX(Overmolded with cable) OR AD-03BFFB-QL8AP0(Field installable))



Push connectors together until the lock ring has snapped into place and a click is heard.



Connector pin-out



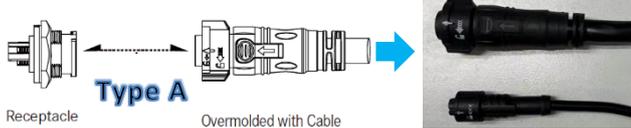
To disassemble connectors, twist the lock ring and then separate connectors.

| Pin | Dimming Connector | |
|-----|-------------------|-----|
| 1 | DA+ | D1+ |
| 3 | +24V | COM |
| 4 | DA- | D1- |

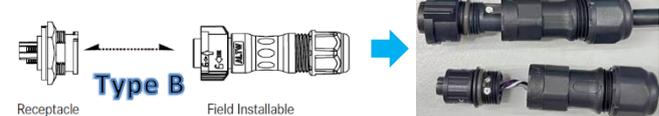
Pin Arrangement

Please note that Amphenol matching connector has two types as below. One is type A over molded with cable, which is suitable for the length of the cable is fixed, and the part number is CC-03AFMM-QL8EXX and AD-03BFFM-QL8DXX ("XX" the length of cable). The other is type B connector and cable are separated, it will be best option for field installation, the part number is CC-03BFMB-QL8APA and AD-03BFFB-QL8AP0.

Receptacle to Overmolded with Cable



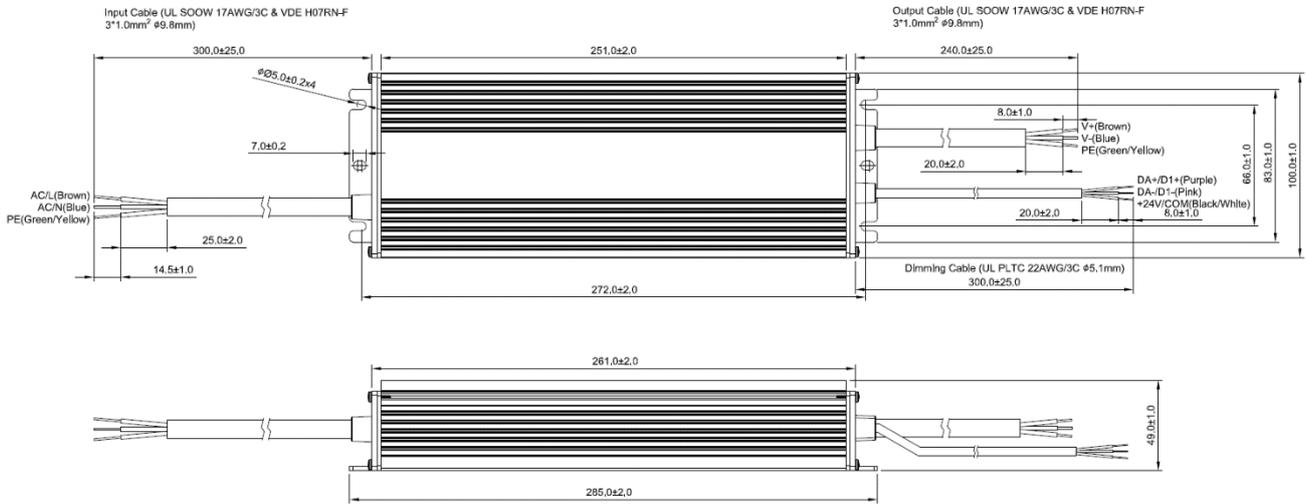
Receptacle to Field Installable



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2. D version



Unit: mm

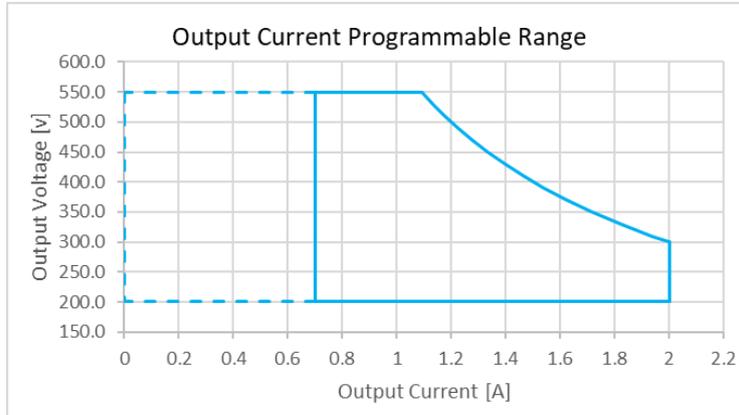
| | Wire Color | Function | Cable Length | Strip Length | Sheath Length |
|---------------|--------------|----------|---------------|--------------|---------------|
| Input Cable | Brown | L | 300.0±25.0 mm | 14.5±1.0 mm | 25.0±2.0 mm |
| | Blue | N | | | |
| | Green/Yellow | PE | | | |
| Output Cable | Brown | V+ | 240.0±25.0 mm | 8.0±1.0 mm | 20.0±2.0 mm |
| | Blue | V- | | | |
| | Green/Yellow | PE | | | |
| Dimming Cable | Purple | DA+/D1+ | 300.0±25.0 mm | 8.0±1.0 mm | 20.0±2.0 mm |
| | Pink | DA-/D1- | | | |
| | Black/White | +24V/COM | | | |

LED Driver

EUCO ARENA SPORT 600W Series

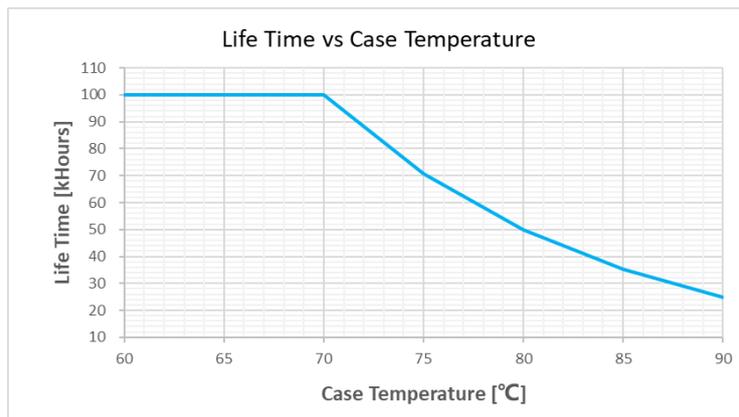
Appendix

1. Operating Range Curve: constant power range 1090~2000mA (Full power output)

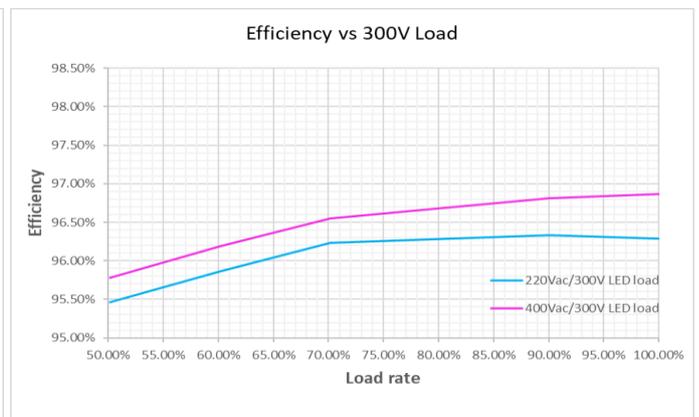
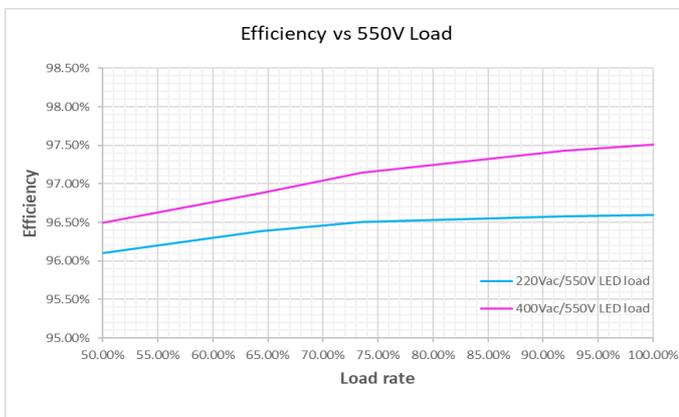


Note: EUCO ARENA SPORT 600W series can be programmed with wide output current through computer and programming tool. For more details, please refer to DALI programming User Manual or RDM/DMX programming User Manual.

2. Life Time versus Case Temperature Curve



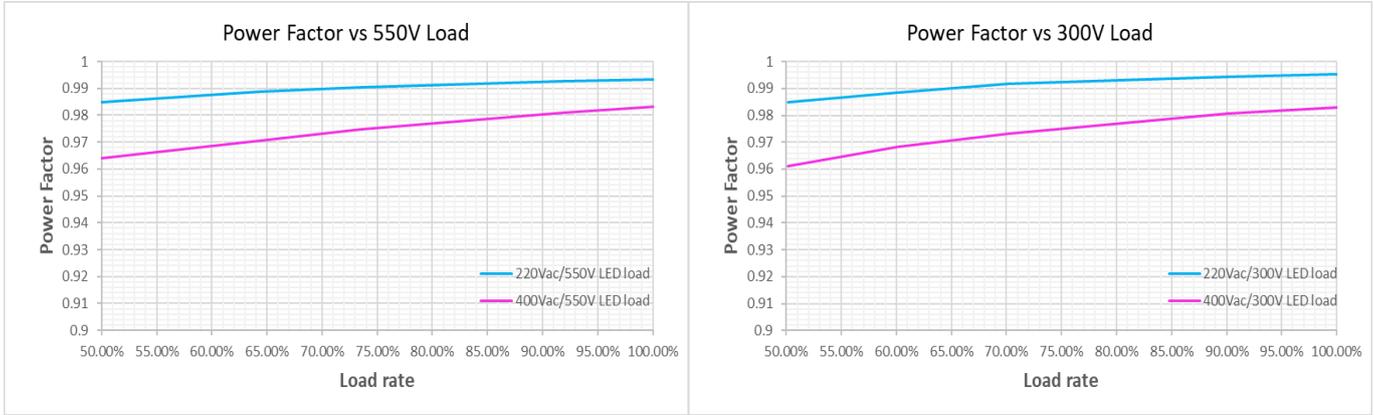
3. Efficiency versus Load



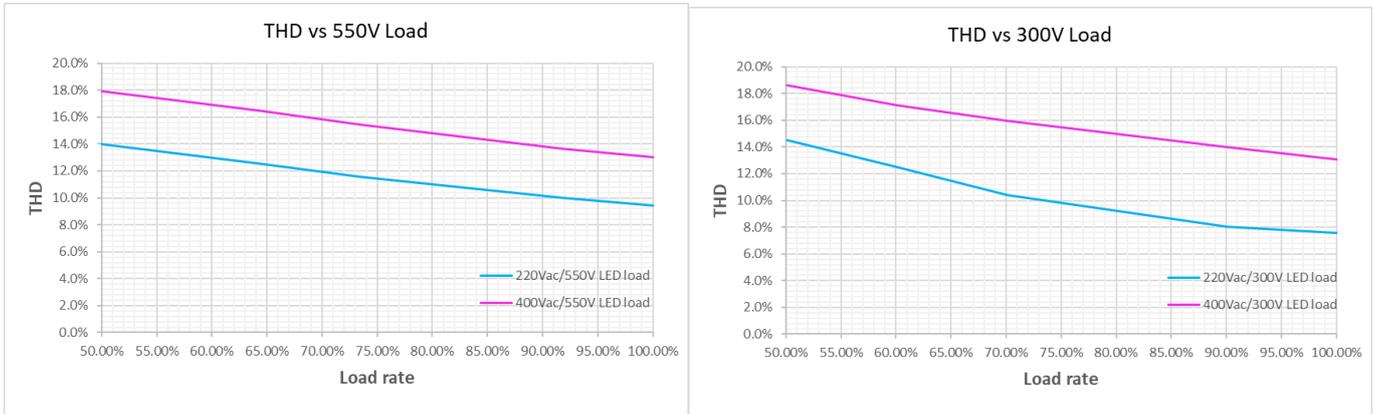
LED Driver

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4. Power Factor versus Load

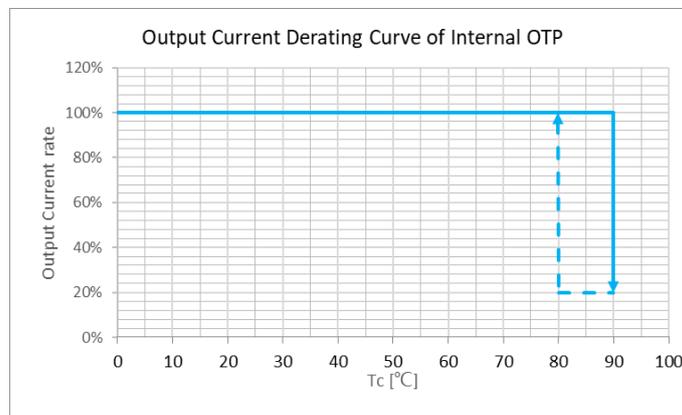


5. THD versus Load



6. Internal Over Temperature Protection

This function ensures that the driver works under safe operating temperature condition. When the ambient temperature exceeds a fixed threshold ($T_{c1} = 90^{\circ}\text{C}$ typical), the output current will decrease to 20% automatically to reduce the internal temperature of the driver. The minimum output current ratio is 20% of the value before the internal OTP enabled. The output current will recover to 100% when the internal temperature is below recovery threshold ($T_{c2} = 80^{\circ}\text{C}$ typical).

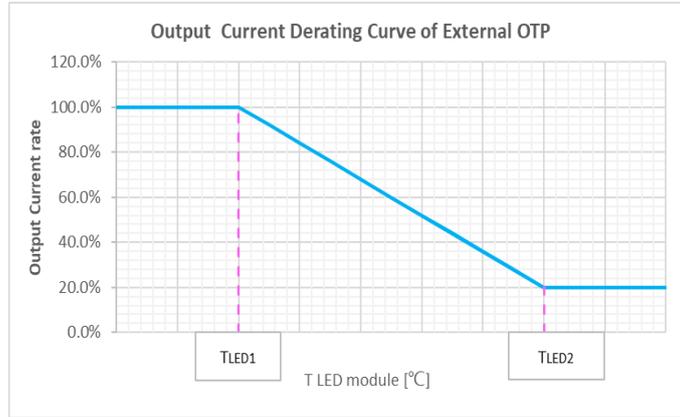


LED Driver

EUCO ARENA SPORT 600W Series

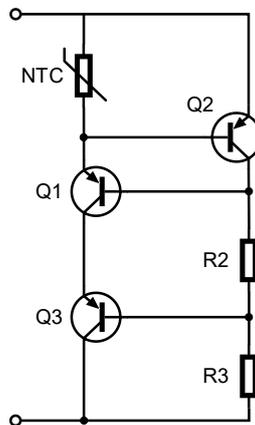
7. Programmable External Over Temperature Protection

This protection is only available in version A and is an optional feature and user can ignore it without connecting to NTC connector in the junction box. The driver monitors the temperature of the LED module through NTC terminal. The output current will be reduced smoothly and linearly at OTP status and return to normal when the fault condition is removed.



The trigger point of this protection can be set easily according to the actual conditions of the LED fixtures, the user can set the trigger point between 80 °C and 110 °C by the Delta programming tool, and the default value is 100 °C. When the temperature exceeds the triggering point, the output current will decrease automatically to bring the temperature of the LED module back to safe value. More details about parameter setting please refer to **DALI programming User Manual or RDM/DMX programming User Manual**.

An external temperature sensing circuit is required to achieve the NTC terminal function to prevent the LED fixture from overheating. The default setting is for a 33Kohm NTC, the circuits shown as below.



| Parameter | Part | Manufacturer | Description |
|-----------|------------------|--------------|--|
| NTC | TSM1A333F3952RZA | THINKING | RES NTC 33Kohm F 3950K +/-1% SMD 0603 TP |
| R2/R3 | RC1206FR-07 5M1L | YAGEO | RES SMD 1/4W 5.1Mohm F 1206 |
| Q1/Q2/Q3 | PBHV9050T | NEXPERIA | 500V 150 mA PNP high-voltage low VCEsat transistor |

Note: To achieve a good accuracy of OTP, Q2 should be placed close to NTC to make them have the same temperature. This product is also compatible with the circuitry for a 10Kohm NTC, this version could be selected and activated by “OTP on Fixture” section of GUI (Select “10K” in this section). The BOM table is shown as below.

LED Driver

EUCO ARENA SPORT 600W Series

| Parameter | Part | Manufacturer | Description |
|-----------|------------------------|--------------|--|
| NTC | B57371V2103H060 | TDK | RES NTC 10Kohm F 4480K +/-3% SMD 0603 TP |
| R2/R3 | RC1206FR-07 1ML | YAGEO | RES SMD 1/4W 1Mohm F 1206 |
| Q1/Q2/Q3 | PBHV9050T | NEXPERIA | 500V 150 mA PNP high-voltage low VCEsat transistor |

Note: The output voltage needs to be over 300V to be effective by using this 10Kohm NTC version. And to achieve good accuracy of OTP, Q2 should be placed close to NTC to make them have same temperature.

8. External SPD requirement for extra LED fixture common mode surge protection

The EUCO series driver has been designed with a built-in surge absorber which protects against lightning up to CM/DM 10kV level. The built-in surge absorber activates once a common mode surge intrusion occurring, which offers a protection against any unexpected voltage surge to the LED module of $\leq 3\text{kV}$.

Even though, EUCO Arena driver series do not require the installation of an additional SPD protect the driver and LED module against any unexpected surge voltage, it would allow to further strength the robustness protection capability against surge residual voltage of LED modules which allows the fixtures to be marketed globally by attributing different surge protector device (SPD) to meet differing surge levels.

However, Delta Electronics proposes not to install an external SPD at LED module side because it would be unsafe attributable to when this device would be triggered, a high common mode current will generate through driver and SPD that will cause some unexpected and irreversible damage to the driver.

9. Warranty Policy

Please reach out our [Warranty Policy](#) should you require any further clarification.

10. Attention

Delta provides all information in the datasheets on an "AS IS" basis and does not offer any kind of warranty through the information for using the product. In the event of any discrepancy between the information in the catalog and datasheets, the datasheets shall prevail (please refer to <https://psu.deltaww.com> for the latest datasheets information). Delta shall have no liability of indemnification for any claim or action arising from any error for the provided information in the datasheets. Customer shall take its responsibility for evaluation of using the product before placing an order with Delta.