

LEDMASTER TWO

SYMMETRIC OPTIC



GENERAL CHARACTERISTICS	
Type	Floodlight
Applications	large sports areas (HDTV), large areas and airports
MATERIALS AND FINISHES	
<ul style="list-style-type: none"> • One piece body in die-cast aluminum with minimum EN 47100 title with low content copper and high resistance to atmospheric agents. • Internal power supply system: cable box (body and rear cover) in die cast aluminium. • External on board and remote power supply system: aluminium cable plate and power supply box in die cast aluminium. • Coated in silver-colored polyester powders (RAL 9006) resistant to UV rays according to ASTM D4587:2011 standard and to salt spray according to EN ISO 9227:2017, with a duration of 3000 hours. • Pressure compensation filters in Teflon. • Gaskets in anti-aging silicone material, removable. • INFINITY protection system: extra-clear tempered glass protection screen, 4mm thick, made in a single piece, without fixing ring. • Stainless steel external captive screws. • Hot deep galvanized steel fixing bracket. 	
MECHANICAL CHARACTERISTICS	
<ul style="list-style-type: none"> • Opening provides access to optics and cable box in a single, easy step by by acting on the screws in stainless steel. • To prevent accidental loss of the protection screen during assembly and maintenance, the floodlight is equipped with retention cords. 	
PROTECTION AGAINST SURGES	
<ul style="list-style-type: none"> • CL I: up to 10kV/10kA, both in common and differential mode as in the gear box there's a Surge Protection Device (SPD). • In the configuration with separate driver there are SPDs in direct current for the protection of the LEDs. • In the development of LED lighting systems with LEDMASTER ONE it is essential to introduce other SPD in the general panel (type 1 - f.e. with I_{max} = 100kA), in the area panels (type 1-2 or 2-3 - f.e. with I_{max} = 60kA) and coordinate them with the surge protector of the floodlight. 	
INSTALLATION	
<ul style="list-style-type: none"> • The floodlights that can be easily installed on metal structures or crosspieces thanks to the sturdy hot-dip galvanized steel bracket. 	
TILT REGULATION AND AIMING DEVICES FOR SYMMETRIC VERSION	
<p>Tilt adjustment: the floodlights are equipped with an aluminum lateral protractor scale and the relative reference on the bracket that allow continuous angular adjustment of the luminaire from +25° to +80°.</p> <p>Aiming:</p> <ol style="list-style-type: none"> A standard mechanical sight with concentric circles can be used in simple venues or for a pre-aiming; For a more precise aiming, it is possible to equip the floodlight with an easy-to-install stainless steel sighting device (included as standard with the floodlight); For a maximum precision it is possible to use a telescopic/laser device (optional). 	



LEDMASTER TWO

SYMMETRIC OPTIC



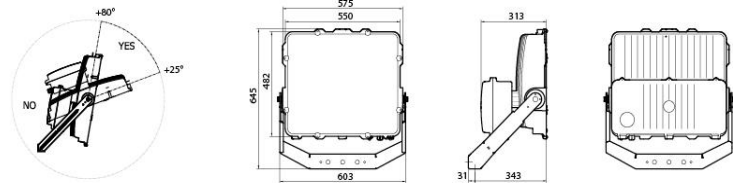
POWER SUPPLY CHARACTERISTICS
<ul style="list-style-type: none"> • Power supply units consisting of a programmable driver with a lifespan greater than 100,000h and only 10% of failure rate. • Electronic power supply with integrated thermal protection with high efficiency and durability intended for external use. • All versions are protected against overloads and surges to protect components and LEDs. • Total harmonic distortion (THD) 20% at full load. • LED driver with thermal protection and short circuit protection. • Power supply cables accesses the device through IP68 cable glands, different according to the configuration. • Power correction factor at full load > 0.9. • Power supply 220 - 240V / 50 - 60 Hz VAC. On request 400V version is also available. • Cable plate complete with easily replaceable electronic unit. • DALI: digital dimming interface via DALI protocol.
ELECTRICAL CONFIGURATIONS
WITH INTERNAL POWER SUPPLY SYSTEM
<ul style="list-style-type: none"> • The internal wiring version includes drivers mounted on cable plates easily replaceable. <p>Cable glands:</p> <ul style="list-style-type: none"> • PG16 for supply voltage; • PG13 for DALI bipolar cable (optional).
WITH ON BOARD EXTERNAL POWER SUPPLY SYSTEM
<ul style="list-style-type: none"> • The on board external wiring version provides IP67 driver mounted externally to the body. <p>Cable glands:</p> <ul style="list-style-type: none"> • PG16 for supply voltage; • PG13 for DALI bipolar cable (optional).
WITH REMOTE POWER SUPPLY SYSTEM
<p>The remote wiring consists of delocalized power supply units, such as towers-based, cabinets or remote location. Power supply groups can be represented by IP20 plates, housed in cabinets or premises, and IP66 plates. The floodlights with delocalized wiring are equipped with a SPD in Vdc for the protection of each LED channel. IP68 cable gland for the connection between the power supply unit and the floodlight for multicore cable.</p> <p>Connection cables between power supply units and floodlight:</p> <ul style="list-style-type: none"> • between 0 and 70m use 1.5 mmq multipolar cables; • between 70 and 100m use 2.5 mmq multipolar cables. <p>Cables type FG16R16 or FG16M16 (for operating temperatures from -40°C to +80°C, use suitable cable like Ölflex classic 110 black type or similar).</p> <p>For the ground connection of the floodlights, it is necessary to use a dedicated single-core earth cable with a cross-section of at least 6mmq, passing through the cable gland. In the wiring box there are four surge protectors that carry the lightning resistance up to 10kV. Possibility of signaling an intervention in the plate panel cabinet.</p>
WISE SOLUTION (optional)
<ul style="list-style-type: none"> • DMX: digital dimming interface via DMX protocol.

LEDMASTER TWO

SYMMETRIC OPTIC

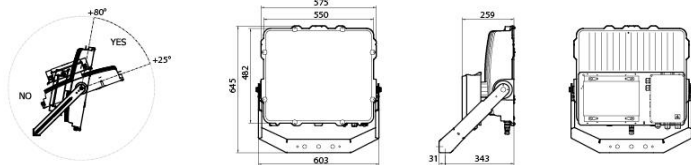
DIMENSIONS

INTERNAL POWER SUPPLY SYSTEM



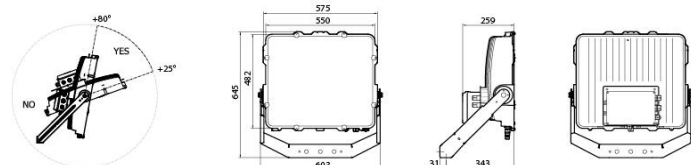
Max weight*	27,50 kg
Lateral exposed surface	0,122m ²
Front exposed surface - tilt 65°	0,250m ²

ON BOARD EXTERNAL POWER SUPPLY SYSTEM



Max weight*	27,50 kg
Lateral exposed surface	0,110m ²
Front exposed surface - tilt 65°	0,250m ²

REMOTE POWER SUPPLY SYSTEM



Max weight*	21,50 kg
Lateral exposed surface	0,100m ²
Front exposed surface - tilt 65°	0,250m ²

* Weight tolerance ± 5%

** Allowed functioning position

LEDMASTER TWO

SYMMETRIC OPTIC

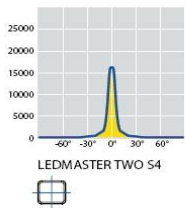
OPTICAL SYSTEM CHARACTERISTICS

LIVE SPORT symmetric optics designed in-house, for professional lighting sports facilities.
 Composed of metallized techpolymer reflectors in a vacuum with high efficiency and durability.
 Available in different beams and light intensity.
 Optic group easily replaceable.
 Optical unit in a single compartment protected by the INFINITY protection system: extra-clear tempered glass protection screen, 4mm thick, made in a single piece, without fixing ring.
 Thermal dissipation system by means of cross-sectional cooling fins placed on the upper cover.
 High Power LED technology on a pressed aluminum circuit, highly heatdissipating MCPCB (Metal Core Printed Circuit Board).
 Color temperature (tolerance $\pm 400K$): 5000K – CRI >70 / 5700K – CRI >80.
 The versions from 4000 to 5700K and CRI>90 are available on request.

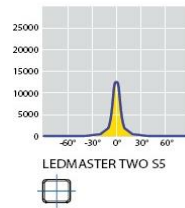
MAINTENED AVERAGE LUMINOUS FLUX ACCORDING TO LM80 - TM21 STANDARDS

Operating temperature range		
-40°C ÷ +40°C	L80B10	> 100.000 hrs
-40°C ÷ +40°C	L90B10	> 50.000 hrs
-40°C ÷ +55°C	L80B10	> 50.000 hrs

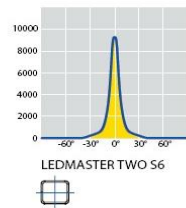
PHOTOMETRIC DATA



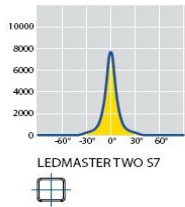
OTTICA / OPTIC S4



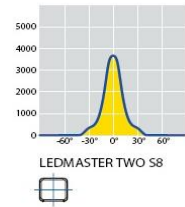
OTTICA / OPTIC S5



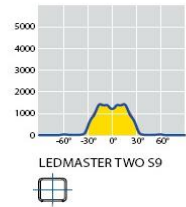
OTTICA / OPTIC S6



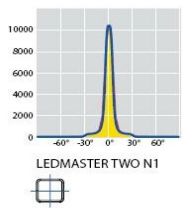
OTTICA / OPTIC S7



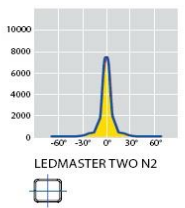
OTTICA / OPTIC S8



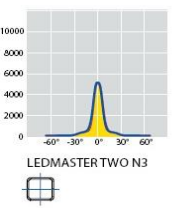
OTTICA / OPTIC S9



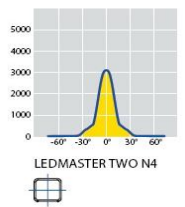
OTTICA / OPTIC N1



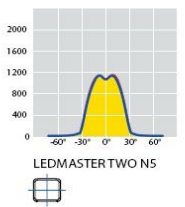
OTTICA / OPTIC N2



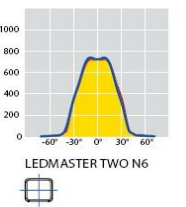
OTTICA / OPTIC N3



OTTICA / OPTIC N4



OTTICA / OPTIC N5



OTTICA / OPTIC N6



LEDMASTER TWO

SYMMETRIC OPTIC - INTERNAL POWER SUPPLY SYSTEM

CODICI PRODOTTO / PRODUCT CODES										
Codice	Numero di LED	Optica	W (LED+DRIVER)	Flusso luminoso nominale LED	Flusso utile in uscita	Peso lordo	Vol. (m ³)	Temp. Colore / CRI	DESIGN CODE*	
Code	Number of LED	Optic		Nominal flux LED (Lumen)	Useful output flux (Lumen)	Gross weight (kg)		Color Temp. / CRI		
86006	60	N1	1015	178000	139000	32,00	0,189	5000K - CRI 70	LTWOIDB60--N1K5070	
86007	60	N2	1015	178000	135200	32,00	0,189	5000K - CRI 70	LTWOIDB60--N2K5070	
86008	60	N3	1015	178000	132100	32,00	0,189	5000K - CRI 70	LTWOIDB60--N3K5070	
86009	60	N4	1015	178000	129200	32,00	0,189	5000K - CRI 70	LTWOIDB60--N4K5070	
86010	60	N5	1015	178000	123700	32,00	0,189	5000K - CRI 70	LTWOIDB60--N5K5070	
86011	60	N6	1015	178000	134000	32,00	0,189	5000K - CRI 70	LTWOIDB60--N6K5070	
86150	48	S4	888	150000	118000	32,00	0,189	5000K - CRI 70	LTWOIDB48--S4K5070	
86151	48	S5	888	150000	116070	32,00	0,189	5000K - CRI 70	LTWOIDB48--S5K5070	
86152	48	S6	888	150000	114150	32,00	0,189	5000K - CRI 70	LTWOIDB48--S6K5070	
86153	48	S7	888	150000	114150	32,00	0,189	5000K - CRI 70	LTWOIDB48--S7K5070	
86154	48	S8	888	150000	111000	32,00	0,189	5000K - CRI 70	LTWOIDB48--S8K5070	
86155	48	S9	888	150000	107730	32,00	0,189	5000K - CRI 70	LTWOIDB48--S9K5070	
86192	48	S4	710	130000	102000	30,20	0,189	5000K - CRI 70	LTWOIDC48--S4K5070	
86193	48	S5	710	130000	100330	30,20	0,189	5000K - CRI 70	LTWOIDC48--S5K5070	
86194	48	S6	710	130000	98670	30,20	0,189	5000K - CRI 70	LTWOIDC48--S6K5070	
86195	48	S7	710	130000	98670	30,20	0,189	5000K - CRI 70	LTWOIDC48--S7K5070	
86196	48	S8	710	130000	95950	30,20	0,189	5000K - CRI 70	LTWOIDC48--S8K5070	
86197	48	S9	710	130000	93130	30,20	0,189	5000K - CRI 70	LTWOIDC48--S9K5070	
86233	48	S4	550	105000	82000	30,20	0,189	5000K - CRI 70	LTWOIDD48--S4K5070	
86234	48	S5	550	105000	80660	30,20	0,189	5000K - CRI 70	LTWOIDD48--S5K5070	
86235	48	S6	550	105000	79320	30,20	0,189	5000K - CRI 70	LTWOIDD48--S6K5070	
86236	48	S7	550	105000	79320	30,20	0,189	5000K - CRI 70	LTWOIDD48--S7K5070	
86237	48	S8	550	105000	77140	30,20	0,189	5000K - CRI 70	LTWOIDD48--S8K5070	
86238	48	S9	550	105000	74870	30,20	0,189	5000K - CRI 70	LTWOIDD48--S9K5070	
87346	60	N1	1015	163700	127850	32,00	0,189	5700K - CRI 80	LTWOIDB60--N1K5780	
87347	60	N2	1015	163700	124350	32,00	0,189	5700K - CRI 80	LTWOIDB60--N2K5780	
87348	60	N3	1015	163700	121500	32,00	0,189	5700K - CRI 80	LTWOIDB60--N3K5780	
87349	60	N4	1015	163700	118850	32,00	0,189	5700K - CRI 80	LTWOIDB60--N4K5780	
87350	60	N5	1015	163700	113800	32,00	0,189	5700K - CRI 80	LTWOIDB60--N5K5780	
87351	60	N6	1015	163700	123250	32,00	0,189	5700K - CRI 80	LTWOIDB60--N6K5780	
87490	48	S4	888	138000	108550	32,00	0,189	5700K - CRI 80	LTWOIDB48--S4K5780	
87491	48	S5	888	138000	106750	32,00	0,189	5700K - CRI 80	LTWOIDB48--S5K5780	
87492	48	S6	888	138000	105000	32,00	0,189	5700K - CRI 80	LTWOIDB48--S6K5780	
87493	48	S7	888	138000	105000	32,00	0,189	5700K - CRI 80	LTWOIDB48--S7K5780	
87494	48	S8	888	138000	102100	32,00	0,189	5700K - CRI 80	LTWOIDB48--S8K5780	
87495	48	S9	888	138000	99100	32,00	0,189	5700K - CRI 80	LTWOIDB48--S9K5780	
87532	48	S4	710	119000	93800	30,20	0,189	5700K - CRI 80	LTWOIDC48--S4K5780	
87533	48	S5	710	119000	92300	30,20	0,189	5700K - CRI 80	LTWOIDC48--S5K5780	
87534	48	S6	710	119000	90750	30,20	0,189	5700K - CRI 80	LTWOIDC48--S6K5780	
87535	48	S7	710	119000	90750	30,20	0,189	5700K - CRI 80	LTWOIDC48--S7K5780	
87536	48	S8	710	119000	88250	30,20	0,189	5700K - CRI 80	LTWOIDC48--S8K5780	
87537	48	S9	710	119000	85650	30,20	0,189	5700K - CRI 80	LTWOIDC48--S9K5780	
87573	48	S4	550	96000	75400	30,20	0,189	5700K - CRI 80	LTWOIDD48--S4K5780	
87574	48	S5	550	96000	74200	30,20	0,189	5700K - CRI 80	LTWOIDD48--S5K5780	
87575	48	S6	550	96000	72950	30,20	0,189	5700K - CRI 80	LTWOIDD48--S6K5780	
87576	48	S7	550	96000	72950	30,20	0,189	5700K - CRI 80	LTWOIDD48--S7K5780	
87577	48	S8	550	96000	70950	30,20	0,189	5700K - CRI 80	LTWOIDD48--S8K5780	
87578	48	S9	550	96000	68850	30,20	0,189	5700K - CRI 80	LTWOIDD48--S9K5780	

Multichip LED technology.

ENEC certified floodlight for operating temperatures from -40 to +40°C.

Ambient performance temperature Tq 25°C.

Floodlight with digital dimming interface via DALI protocol.

Cable glands:

- PG16 for supply voltage;
- PG13 for DALI bipolar cable (optional).

Tolerance flux values +/- 10%.

Tolerance of electrical power values: +/- 5%.

The flux indicated in the table may be changed and improved according to the constant technical evolution of the light efficiency of the led.

* Design Code: reference code for the design.

LEDMASTER TWO

SYMMETRIC OPTIC - ON BOARD EXTERNAL POWER SUPPLY SYSTEM



CODICI PRODOTTO / PRODUCT CODES											
Codice	Numero di LED	Offica	W (LED+DRIVER)	Flusso luminoso nominale LED	Flusso utile in uscita	Peso lordo	Vol. (m ³)	Temp. Colore / CRI	DESIGN CODE*		
Code	Number of LED	Optic		Nominal flux LED (Lumen)	Useful output flux (Lumen)	Gross weight (kg)		Color Temp. / CRI			
86036	60	N1	1120	192000	150000	31,80	0,165	5000K - CRI 70	LTWO--A60--N1K5070		
86037	60	N2	1120	192000	145950	31,80	0,165	5000K - CRI 70	LTWO--A60--N2K5070		
86038	60	N3	1120	192000	142650	31,80	0,165	5000K - CRI 70	LTWO--A60--N3K5070		
86039	60	N4	1120	192000	139500	31,80	0,165	5000K - CRI 70	LTWO--A60--N4K5070		
86040	60	N5	1120	192000	133500	31,80	0,165	5000K - CRI 70	LTWO--A60--N5K5070		
86041	60	N6	1120	192000	144600	31,80	0,165	5000K - CRI 70	LTWO--A60--N6K5070		
86018	60	N1	1015	178000	139000	31,80	0,165	5000K - CRI 70	LTWO--B60--N1K5070		
86019	60	N2	1015	178000	135200	31,80	0,165	5000K - CRI 70	LTWO--B60--N2K5070		
86020	60	N3	1015	178000	132100	31,80	0,165	5000K - CRI 70	LTWO--B60--N3K5070		
86021	60	N4	1015	178000	129200	31,80	0,165	5000K - CRI 70	LTWO--B60--N4K5070		
86022	60	N5	1015	178000	123700	31,80	0,165	5000K - CRI 70	LTWO--B60--N5K5070		
86023	60	N6	1015	178000	134000	31,80	0,165	5000K - CRI 70	LTWO--B60--N6K5070		
89562	48	S4	980	160000	126000	31,80	0,165	5000K - CRI 70	LTWO--A48--S4K5070		
89563	48	S5	980	160000	123940	31,80	0,165	5000K - CRI 70	LTWO--A48--S5K5070		
89564	48	S6	980	160000	121890	31,80	0,165	5000K - CRI 70	LTWO--A48--S6K5070		
89565	48	S7	980	160000	121890	31,80	0,165	5000K - CRI 70	LTWO--A48--S7K5070		
89566	48	S8	980	160000	118530	31,80	0,165	5000K - CRI 70	LTWO--A48--S8K5070		
89567	48	S9	980	160000	115040	31,80	0,165	5000K - CRI 70	LTWO--A48--S9K5070		
86162	48	S4	888	150000	118000	31,80	0,165	5000K - CRI 70	LTWO--B48--S4K5070		
86163	48	S5	888	150000	116070	31,80	0,165	5000K - CRI 70	LTWO--B48--S5K5070		
86164	48	S6	888	150000	114150	31,80	0,165	5000K - CRI 70	LTWO--B48--S6K5070		
86165	48	S7	888	150000	114150	31,80	0,165	5000K - CRI 70	LTWO--B48--S7K5070		
86166	48	S8	888	150000	111000	31,80	0,165	5000K - CRI 70	LTWO--B48--S8K5070		
86167	48	S9	888	150000	107730	31,80	0,165	5000K - CRI 70	LTWO--B48--S9K5070		
87376	60	N1	1120	176000	138000	31,80	0,165	5700K - CRI 80	LTWO--A60--N1K5780		
87377	60	N2	1120	176000	134250	31,80	0,165	5700K - CRI 80	LTWO--A60--N2K5780		
87378	60	N3	1120	176000	131200	31,80	0,165	5700K - CRI 80	LTWO--A60--N3K5780		
87379	60	N4	1120	176000	128300	31,80	0,165	5700K - CRI 80	LTWO--A60--N4K5780		
87380	60	N5	1120	176000	122800	31,80	0,165	5700K - CRI 80	LTWO--A60--N5K5780		
87381	60	N6	1120	176000	133000	31,80	0,165	5700K - CRI 80	LTWO--A60--N6K5780		
87358	60	N1	1015	163700	127850	31,80	0,165	5700K - CRI 80	LTWO--B60--N1K5780		
87359	60	N2	1015	163700	124350	31,80	0,165	5700K - CRI 80	LTWO--B60--N2K5780		
87360	60	N3	1015	163700	121500	31,80	0,165	5700K - CRI 80	LTWO--B60--N3K5780		
87361	60	N4	1015	163700	118850	31,80	0,165	5700K - CRI 80	LTWO--B60--N4K5780		
87362	60	N5	1015	163700	113800	31,80	0,165	5700K - CRI 80	LTWO--B60--N5K5780		
87363	60	N6	1015	163700	123250	31,80	0,165	5700K - CRI 80	LTWO--B60--N6K5780		
89706	48	S4	980	147200	115900	31,80	0,165	5700K - CRI 80	LTWO--A48--S4K5780		
89707	48	S5	980	147200	114000	31,80	0,165	5700K - CRI 80	LTWO--A48--S5K5780		
89708	48	S6	980	147200	112100	31,80	0,165	5700K - CRI 80	LTWO--A48--S6K5780		
89709	48	S7	980	147200	112100	31,80	0,165	5700K - CRI 80	LTWO--A48--S7K5780		
89710	48	S8	980	147200	109000	31,80	0,165	5700K - CRI 80	LTWO--A48--S8K5780		
89711	48	S9	980	147200	105800	31,80	0,165	5700K - CRI 80	LTWO--A48--S9K5780		
87502	48	S4	888	138000	108550	31,80	0,165	5700K - CRI 80	LTWO--B48--S4K5780		
87503	48	S5	888	138000	106750	31,80	0,165	5700K - CRI 80	LTWO--B48--S5K5780		
87504	48	S6	888	138000	105000	31,80	0,165	5700K - CRI 80	LTWO--B48--S6K5780		
87505	48	S7	888	138000	105000	31,80	0,165	5700K - CRI 80	LTWO--B48--S7K5780		
87506	48	S8	888	138000	102100	31,80	0,165	5700K - CRI 80	LTWO--B48--S8K5780		
87507	48	S9	888	138000	99100	31,80	0,165	5700K - CRI 80	LTWO--B48--S9K5780		

Multichip LED technology.
 ENEC certified floodlight for operating temperatures from -40 to +55°C.
 Ambient performance temperature Tq 25°C.
 Floodlight with digital dimming interface for only dimming of the luminous flux via DALI protocol.

Cable glands:
 • PG16 for supply voltage;
 • PG13 for DALI bipolar cable (optional).

Tolerance flux values +/- 10%.
 Tolerance of electrical power values: +/- 5%.
 The flux indicated in the table may be changed and improved according to the constant technical evolution of the light efficiency of the led.

* Design Code: reference code for the design.



LEDMASTER TWO

SYMMETRIC OPTIC - REMOTE POWER SUPPLY SYSTEM

CODICI PRODOTTO / PRODUCT CODES											
Codice	Numero di LED	Optica	W (LED+DRIVER)		Flusso luminoso nominale LED	Flusso utile in uscita	Peso lordo	Vol. (m ³)	Temp. Colore / CRI	DESIGN CODE*	
Code	Number of LED	Optic			Nominal flux LED (Lumen)	Useful output flux (Lumen)	Gross weight (kg)		Color Temp. / CRI		
89868	60	N1	1120	192000	150000	25,80	0,165	5000K - CRI 70	LTWO--A60--N1K5070		
89869	60	N2	1120	192000	145950	25,80	0,165	5000K - CRI 70	LTWO--A60--N2K5070		
89870	60	N3	1120	192000	142650	25,80	0,165	5000K - CRI 70	LTWO--A60--N3K5070		
89871	60	N4	1120	192000	139500	25,80	0,165	5000K - CRI 70	LTWO--A60--N4K5070		
89872	60	N5	1120	192000	133500	25,80	0,165	5000K - CRI 70	LTWO--A60--N5K5070		
89873	60	N6	1120	192000	144600	25,80	0,165	5000K - CRI 70	LTWO--A60--N6K5070		
86084	60	N1	1015	178000	139000	25,80	0,165	5000K - CRI 70	LTWO--B60--N1K5070		
86085	60	N2	1015	178000	135200	25,80	0,165	5000K - CRI 70	LTWO--B60--N2K5070		
86086	60	N3	1015	178000	132100	25,80	0,165	5000K - CRI 70	LTWO--B60--N3K5070		
86087	60	N4	1015	178000	129200	25,80	0,165	5000K - CRI 70	LTWO--B60--N4K5070		
86088	60	N5	1015	178000	123700	25,80	0,165	5000K - CRI 70	LTWO--B60--N5K5070		
86089	60	N6	1015	178000	134000	25,80	0,165	5000K - CRI 70	LTWO--B60--N6K5070		
89878	48	S4	980	160000	126000	25,80	0,165	5000K - CRI 70	LTWO--A48--S4K5070		
89879	48	S5	980	160000	123940	25,80	0,165	5000K - CRI 70	LTWO--A48--S5K5070		
89880	48	S6	980	160000	121890	25,80	0,165	5000K - CRI 70	LTWO--A48--S6K5070		
89881	48	S7	980	160000	121890	25,80	0,165	5000K - CRI 70	LTWO--A48--S7K5070		
89882	48	S8	980	160000	118530	25,80	0,165	5000K - CRI 70	LTWO--A48--S8K5070		
89883	48	S9	980	160000	115040	25,80	0,165	5000K - CRI 70	LTWO--A48--S9K5070		
86275	48	S4	888	150000	118000	25,80	0,165	5000K - CRI 70	LTWO--B48--S4K5070		
86276	48	S5	888	150000	116070	25,80	0,165	5000K - CRI 70	LTWO--B48--S5K5070		
86277	48	S6	888	150000	114150	25,80	0,165	5000K - CRI 70	LTWO--B48--S6K5070		
86278	48	S7	888	150000	114150	25,80	0,165	5000K - CRI 70	LTWO--B48--S7K5070		
86279	48	S8	888	150000	111000	25,80	0,165	5000K - CRI 70	LTWO--B48--S8K5070		
86280	48	S9	888	150000	107730	25,80	0,165	5000K - CRI 70	LTWO--B48--S9K5070		
89996	60	N1	1120	176000	138000	25,80	0,165	5700K - CRI 80	LTWO--A60--N1K5780		
89997	60	N2	1120	176000	134250	25,80	0,165	5700K - CRI 80	LTWO--A60--N2K5780		
89998	60	N3	1120	176000	131200	25,80	0,165	5700K - CRI 80	LTWO--A60--N3K5780		
89999	60	N4	1120	176000	128300	25,80	0,165	5700K - CRI 80	LTWO--A60--N4K5780		
90100	60	N5	1120	176000	122800	25,80	0,165	5700K - CRI 80	LTWO--A60--N5K5780		
90101	60	N6	1120	176000	133000	25,80	0,165	5700K - CRI 80	LTWO--A60--N6K5780		
87424	60	N1	1015	163700	127850	25,80	0,165	5700K - CRI 80	LTWO--B60--N1K5780		
87425	60	N2	1015	163700	124350	25,80	0,165	5700K - CRI 80	LTWO--B60--N2K5780		
87426	60	N3	1015	163700	121500	25,80	0,165	5700K - CRI 80	LTWO--B60--N3K5780		
87427	60	N4	1015	163700	118850	25,80	0,165	5700K - CRI 80	LTWO--B60--N4K5780		
87428	60	N5	1015	163700	113800	25,80	0,165	5700K - CRI 80	LTWO--B60--N5K5780		
87429	60	N6	1015	163700	123250	25,80	0,165	5700K - CRI 80	LTWO--B60--N6K5780		
90106	48	S4	980	147200	115900	25,80	0,165	5700K - CRI 80	LTWO--A48--S4K5780		
90107	48	S5	980	147200	114000	25,80	0,165	5700K - CRI 80	LTWO--A48--S5K5780		
90108	48	S6	980	147200	112100	25,80	0,165	5700K - CRI 80	LTWO--A48--S6K5780		
90109	48	S7	980	147200	112100	25,80	0,165	5700K - CRI 80	LTWO--A48--S7K5780		
90110	48	S8	980	147200	109000	25,80	0,165	5700K - CRI 80	LTWO--A48--S8K5780		
90111	48	S9	980	147200	105800	25,80	0,165	5700K - CRI 80	LTWO--A48--S9K5780		
87615	48	S4	888	138000	108550	25,80	0,165	5700K - CRI 80	LTWO--B48--S4K5780		
87616	48	S5	888	138000	106750	25,80	0,165	5700K - CRI 80	LTWO--B48--S5K5780		
87617	48	S6	888	138000	105000	25,80	0,165	5700K - CRI 80	LTWO--B48--S6K5780		
87618	48	S7	888	138000	105000	25,80	0,165	5700K - CRI 80	LTWO--B48--S7K5780		
87619	48	S8	888	138000	102100	25,80	0,165	5700K - CRI 80	LTWO--B48--S8K5780		
87620	48	S9	888	138000	99100	25,80	0,165	5700K - CRI 80	LTWO--B48--S9K5780		

Multichip LED technology.

ENEC certified floodlight for operating temperatures from -40 to +55°C.

Ambient performance temperature Tq 25°C.

Floodlight to be combined with power supply units.

Cable gland PG16 for connection between power supply unit and the floodlight, for minimum multipolar cable with 2 conductors without statuscheck of the SPD and 4 conductors with status check of the SPD, with black insulation-tape and numbered with indelible line. Connect the numbered wires of the cable, following the numbering indicated in the terminal blocks of the power supply units and the floodlight.

Connection cables between power supply units and floodlight:

- between 0 and 70m use 1.5 mmq multipolar cables;
- between 70 and 100m use 2.5 mmq multipolar cables.

Cables type FG16R16 or FG16M16 (for operating temperatures from -40°C to +80°C, use suitable cable like Ölflex classic 110 black type or similar).

For the ground connection of the floodlights, it is necessary to use a dedicated single-core earth cable with a cross-section of at least 6mmq, passing through the cable gland. In the wiring box there are four surge protectors that carry the lightning resistance up to 10kV. Possibility of signaling an intervention in the plate panel cabinet.

Tolerance flux values +/- 10%.

Tolerance of electrical power values: +/- 5%.

The flux indicated in the table may be changed and improved according to the constant technical evolution of the light efficiency of the led.

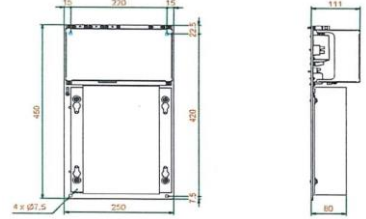
* Design Code: reference code for the design.

LEDMASTER TWO

POWER SUPPLY UNITS FOR SYMMETRIC VERSION WITH REMOTE POWER SUPPLY SYSTEM



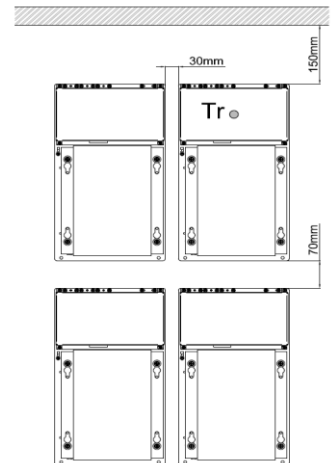
POWER SUPPLY UNITS FOR CABINETS OR LOCAL UNITS - IP20 PLATE	
Electrical components for LED floodlights	max 1120W
Max dissipated power from single plate	120W
Components holder plate	in aluminium
Net weight (max)	8,30 kg 8,80 kg (DMX version)
Mechanical device for the electrical connection	with 6mm ² power supply terminals with 4mm ² DALI/1-10V terminals with XLR IN/OUT connectors for DMX signal
Wiring for power supply voltages	
DALI (standard)	220-240V / 50 - 60 Hz
DALI (on request)	400V / 50 - 60 Hz
1-10V (on request)	220-240V / 50 - 60 Hz
1-10V (on request)	400V / 50 - 60 Hz
DMX (on request)	220-240V / 50 - 60 Hz
DMX (on request)	400V / 50 - 60 Hz



Code	Type	To match with	Gross Weight (kg)	Vol. (m ³)
71593	IP20 230V DALI (3080mA)	89868-89873-89996-90101	8,90	0,018
71629	IP20 230V DALI (2760mA)	86084-86089-87424-87429	8,90	0,018
71881	IP20 230V DALI (3330mA)	89878-89883-90106-90111	8,90	0,018
71611	IP20 230V DALI (3000mA)	86275-86280-87615-87620	8,90	0,018

Power supply unit with digital dimming interface for only dimming of the luminous flux via DALI protocol.

Power supply units suitable for maximum ambient temperature, outside the electrical cabinet or inside the local unit, of 25°C - no forced ventilation needed. For maximum ambient temperature of 40°C, outside the cabinet, cabinet forced ventilation is required. The temperature in free air (Tr), inside the cabinet, above the upper central plates, must be kept at Tmax 60°C, as shown in figure. The cabinet must be protected with a suitable IP rating from direct solar radiation. For ambient temperature around the cabinet above 40°C, the plates must be placed in a cabinet or air-conditioned local units.



LEDMASTER TWO

POWER SUPPLY UNITS FOR SYMMETRIC VERSION WITH REMOTE POWER SUPPLY SYSTEM



POWER SUPPLY UNIT FOR CABINETS OR LOCAL UNITS - IP66 PLATE	
Electrical components for LED floodlights	max 1120W
Components holder plate	in aluminium
Junction box and power supply	in die cast aluminium
Driver	mounted on aluminium plate
Opening the junction box and power supply	through 4 stainless steel screws
Junction box and power supply gaskets	in anti-aging rubber
Power supply input hole	with PG16 cable clamp and 6mm ² clamp
DALI line power supply input hole	with PG13.5 cable clamp and 4mm ² clamp
Output holes for driver-floodlight output connection	with PG16 cable gland
Operating temperature	-40°C ÷ +55°C
Net weight (max)	9,5 kg
Wiring for power supply voltages	
DALI (standard)	220-240V / 50 - 60 Hz
DALI (on request)	400V / 50 - 60 Hz
1-10V (on request)	220-240V / 50 - 60 Hz
1-10V (on request)	400V / 50 - 60 Hz
DMX (on request)	220-240V / 50 - 60 Hz
DMX (on request)	400V / 50 - 60 Hz

Code	Type	To match with	Gross Weight (kg)	Vol. (m ³)
71599	IP66 230V DALI (3080mA)	89868-89873-89996-90101	10,20	0,023
71635	IP66 230V DALI (2760mA)	86084-86089-87424-87429	10,20	0,023
71887	IP66 230V DALI (3330mA)	89878-89883-90106-90111	10,20	0,023
71617	IP66 230V DALI (3000mA)	86275-86280-87615-87620	10,20	0,023

Power supply unit with digital dimming interface for only dimming of the luminous flux via DALI protocol.

Do not install in closed cabinets.
Installable power supply unit:
- on the ground,
- on shelf, in a horizontal position, keeping the minimum distances as shown in figure.
Keep the temperature in free air Tr max 55°C.
In any case, it must not be installed on the wall in a horizontal and/or vertical position.

