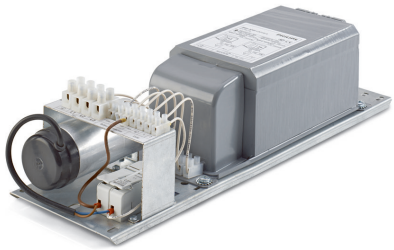
PHILIPS

Lighting



GearUnits – for high-power floodlighting

High Power GearUnits

Philips is one of the few companies able to provide total floodlight system solutions comprising all necessary elements – floodlight, lamp source and control gear unit. Our innovative high-power GearUnits are designed to meet our customers' need for a compact gear solution that is completely ready for installation. The pre-wired high-power control gear units are intended for use in combination with floodlights that are suitable for high-wattage HID lamps and cannot integrate electrical components because of limited space or high temperatures. A gear unit contains all electrical components (ballast, ignitors, capacitors), wiring and terminal blocks needed to ensure initial lamp ignition and proper operation of the lamp in stabilized current. The electromagnetic high-power GearUnits are available in both IP20 (ECB330) and IP65 (ECP330) versions. Within the GearUnits family there is also an electronic ballast version (ECM330) available in IP20, which is suitable for the MVF403 MHN-LA 1000 W and MVF404 MHN-SE HO 2000 W ArenaVision floodlights. The ArenaVision floodlight family is specially designed for TV broadcasts from indoor and outdoor sports facilities. Electronic-ballast GearUnits completely eliminate the flicker effect, thereby guaranteeing perfect images filmed with super-slow-motion cameras.

Benefits

- Guarantees reliable functioning of total Philips floodlight system
- Compact in size and ready for easy installation
- Serviceable – all components are easily replaceable independently

Features

- Sufficiently high power factor
- Available in IP20 and IP65 versions
- Suitable for 2000, 1000, 600 and 2x400/600 W lamps in Philips floodlights
- Flicker-free light with electronic-ballast version for super-slow-motion cameras

High Power GearUnits

Application

- IP20 version: indoor, inside cabinets only
- IP65 version: for outdoor use

Specifications

Type	ECB330 (IP20 version)
	ECP330 (IP65 version)
Applicable light sources	HID:
	- MASTER MHN- SE 2000W HO
	- MASTER MHN-LA / X528 / 1000, 2000 W
	- MASTER MHN-FC / Double ended / 1000, 2000 W
	- HPI-T / E40 / 1000, 2000 W
	- SON-T / E40 / 600, 1000 W
	- 2 x SON-T / E40 / 400, 600 W
	- 2 x HPI-TP / E40 / 400 W
Ballast (integrated)	Electro magnetic, impregnated

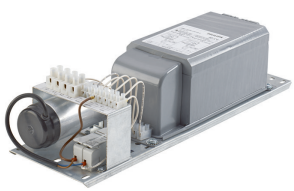
Mains voltage	230 or 240 V / 50 Hz
	380-400-415-430 V / 50 Hz
	360-380-400-415 V / 50 Hz
	Note: mains supply voltage fluctuation not more than -8% and +6% from the rated voltage of the ballast
Ignitor	Semi-parallel (SP) for limited distance between floodlight (SON-T400, 600, 1000 W versions) and gear unit application or parallel (PA) ignitors supplied on the gear unit.
Capacitor	A set of parallel capacitors is used to obtain a power factor of the lamp/ballast circuit up to 0.90

Specifications

Cable gland	Applicable only for ECP330 IP65 versions:
	1-lamp versions:
	- 2 x M25 cable glands (one of them blinded) for mains IN/OUT (through-wiring) suitable for mains supply cable Ø 13 to 18 mm (i.e. 3x2.5 to 5x6 mm² rigid or 5x4 mm² soft)
	- 1 x M20 for lamp supply cable Ø 10 to 14 mm
	2-lamp versions:
	- 2 x M25 cable glands for individual mains supply per lamp circuit (no through-wiring)
	- 1 x M25 for cable Ø 13 to 18 mm accepting 1 cable of 5x6 mm² rigid or 5x4 mm² soft for individual lamp supply
Options	Fuse (FU)
	Note: fuse option applies as 1-phase protection for 230/240 V versions and 2-phase protection for 360-430 V versions
Materials and finishing	Gear tray (IP20 version): pre-galvanized steel
	Housing (IP65 version): aluminum extrusion and die-casting aluminum endcaps, painted in grey

Installation	Ready for mains connection, only cabling needs to be installed between gear unit and luminaire
	Connectors made with screw terminals live, neutral, earth for mains supply
	Mains and lamp connections are clearly marked and to be used for cable cores up to 16 mm² for mains connections and up to 4 mm² for lamp connections
	Ambient temperature: min. -30ºC / max. 45ºC indoor, 55ºC outdoor for IP65 version (ECP330)
Maintenance	All components are easily replaceable independently (i.e. ballast, ignitor, capacitors), except gearbox version ballast is not possible to replace since it isfixed inside gear unit housing

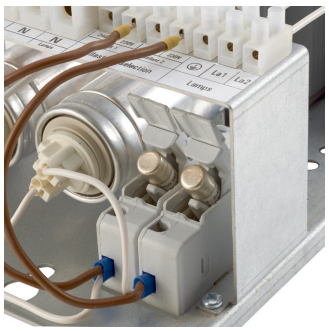
Versions



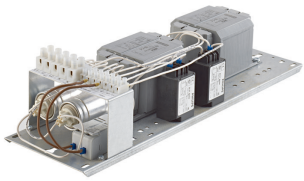
GearUnits - MASTER MHN-SA - 2000 W

GearUnits - MASTER MHN-SA - 2000 W

Product details



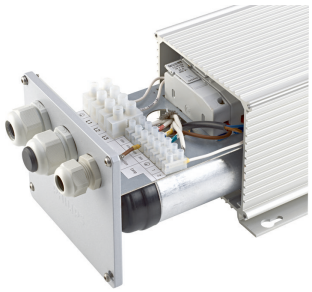
OPDP_ECB330i_0007-Detail photo



OPDP_ECB330i_0001-Detail photo

OPDP_ECB330i_0011-Detail photo

OPDP_ECB330i_0013-Detail photo



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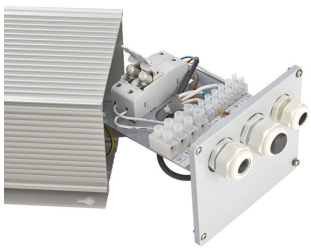

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High Power GearUnits

Operating and Electrical	
Input Frequency	50 Hz

General Information	
CE mark	CE mark
Number of light sources	1

Approval and Application

Order Code	Full Product Name	Mech. impact protection code	Ingress protection code
06275200	ECB330 MHN-LA2000W 360-415V	-	IP20
06278300	ECB330 MHN-SE2000W 380-430V FU	-	IP20

Order Code	Full Product Name	Mech. impact protection code	Ingress protection code
06282000	ECP330 SON-T1000W 230-240V FU	IK10	IP65
06300100	ECP330 MHN-LA2000W 360-415V FU	IK10	IP65

Operating and Electrical

Order Code	Full Product Name	Input Voltage
06275200	ECB330 MHN-LA2000W 360-415V	360 to 415 V
06278300	ECB330 MHN-SE2000W 380-430V FU	380 to 430 V

Order Code	Full Product Name	Input Voltage
06282000	ECP330 SON-T1000W 230-240V FU	230 to 240 V
06300100	ECP330 MHN-LA2000W 360-415V FU	360 to 415 V

General Information

Order Code	Full Product Name	Lamp family code	Lamp power	Product Family Code
06275200	ECB330 MHN-LA2000W 360-415V	MHN-LA	2000 W	ECB330
06278300	ECB330 MHN-SE2000W 380-430V FU	MHN-SE	2000 W	ECB330

Order Code	Full Product Name	Lamp family code	Lamp power	Product Family Code
06282000	ECP330 SON-T1000W 230-240V FU	SON-T	1000 W	ECP330
06300100	ECP330 MHN-LA2000W 360-415V FU	MHN-LA	2000 W	ECP330