GreenStreet IoT

Wireless Outdoor Light Controllers

GLC series

The GLC light controllers are used for smart city services that involve connected streetlight applications.

Designed for easy installation and commissioning, the GLC light controllers can monitor and control luminaires, thereby allowing users to save energy and maintenance costs.

The GLC series includes products for both NEMA and ZHAGA twist-lock sockets.

The GLC light controllers also use a cutting-edge decentralized wireless RF mesh technology designed for meeting large-scale smart city scenarios. This technology allows streetlights to form an infrastructure backbone for other sensors and effectively become an enabler for other smart city services.

Technical Info

MODEL	GLC-10 (NEMA)	GLC-12 (NEMA)	GLC-15 (ZHAGA)
Electrical Data			
Supply Voltage	95-264 VAC, 50/60 Hz	95-264 VAC, 50/60 Hz	24 VDC
Max Lamp Power	Not Applicable	700W	Not Applicable
Power Consumption	< 0.8 W, nominal	< 1 W, nominal	< 1 W, nominal
Housing			
Receptacles, Connector	NEMA (5/7), c136.41	NEMA (3/5/7), c136.10, c136.41	ZHAGA Book 18
Enclosure	Base (UL 94 V-0), Top (Polycarbonate), Sleeve (PBT), IP66, IK09	Base (UL 94 V-0), Top (Polycarbonate), Sleeve (PBT), IP66, IK09	Receptacle (PBT), Top (Polycarbonate), gasket (LSR) IP66, IK09
Dimensions	Ø76 mm, height 50 mm	Ø76 mm, height 50 mm	Ø80 mm, height 33 mm
Environment			
Temparature	-40˚C to +65˚C	-40˚C to +65˚C	-40˚C to + 65˚C
Relative Humidity	0-100%	0-100%	0-100%
Features			
Dimming Interface	DALI, D4i, multi driver option, 0-10V	DALI, D4i, multi driver option, 0-10V	DALI, D4i, multi driver option
Digital Input	Max 36 VDC	Max 36 VDC	Max 40 VDC
Sensors	Accelerometer, Temperature, Lux (option)	Accelerometer, Temperature, Lux (option)	Accelerometer, Temperature, Lux (option)
Output Power Supply	12 VDC (max 15 mA)	12 VDC (max 15 mA)	Not Applicable
Relay	Optional	Yes, 700W@230 VAC	Not Applicable
Measurements	No measurements. Electrical data is read from driver	Integrated energy meter. RMS voltage, RMS current, Active power, Reactive power, Apparent power, Power factor.	No measurement. Electrical data is read from driver
GPS	Optional	Optional	Optional
Wireless			
RF Communications	Mesh, 2.4 GHz, GFSK, Integrated PCB Antenna.		
RF Protocol Software	Wirepas (default) features decentralized network infrastructure, all devices can route, multi gateway support, multi-channel operation, efficient collision free spectrum used to allow dense networks. For other supported RF stacks contact Capelon		
Security	Encryption AES 128bits		
Standards			
Approvals	RED Directive 2014/53/EU, EMC Directive 2014/30/EU, ROHS Directive 2011/65/EU LVD Directive 2014/35/EU		
Radio	EN 301 489-1, EN 301 489-17, EN 301 489-19, EN 300 328, ver 2.2.2		
EMC	EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3		
FCC/ICES	47CFR15.107, 47CFR15.109 and ICES-005 Issue 5		
Safety	EN 62368-1		

Order Info

Model	Part Number	Description
GLC-10, NEMA/PP ECO	P630-1211	No GPS
GLC-10, NEMA/PP STD	P630-1221	GPS, Light Sensor
GLC-12, NEMA/CP ECO	P630-1111	No GPS, Electricity Meter, Relay
GLC-12, NEMA/CP STD	P630-1121	GPS, Electricity Meter, Relay
GLC-15, ZHAGA, ECO	P632-1310	No GPS
GLC-15, ZHAGA, STD	P632-1320	GPS, Light Sensor, Digital input