

# Outdoor Lighting Controller

## VOLC2180



### Benefits

- Increases lamp life up to 15 years
- Up to 70% energy savings
- Reduces maintenance time
- Allows to control them in group
- Converts to smart lighting control system

### Features



#### Robust and Reliable

Offer long range, deep coverage, high availability and managed Low Power Wide Area Network (LPWAN)



#### Remote Controlling

Supports different control modes such as manual and configurable ON/OFF/DIM based on schedule and time



#### Power Measurement

High performance Analog front end solution measuring electrical parameters such as Current, Voltage, Frequency, Power Factor, kW and kWh



#### Grouping

Group by Zone, Floor or Area, based on different light level requirements



#### Retrofit

Easy fit for existing street lights



#### Dimming Controls

Supports dimming via 0-10 VDC, up to 10 dimming schedules



#### Fault Monitoring

Reports on lamp burnouts, driver failure, abnormal power consumption, low power factor, communication failure and more via cloud



#### Alerts

Notifies users via e-mail or text (SMS) messages as soon as it occurs

### Specifications

Performance		
Open Field Range	Up to 10000 meters (LOS)	
Data Rate	37.5 Kbps Max	
TX Power	+20 dBm	
RX Sensitivity	-128 dBm	
Features		
Processor	ARM Cortex-M4 STM32WL 32bit, RISC 48Mhz	
Real Time Clock	Battery-backed RTC	
Memory	256Kb Flash, 32KB EEPROM	
Frequency Band	865 to 867 MHz, 902 to 915 MHz	
Mode of Operation	Manual mode, Schedule mode	
Dimming Interface	Analog	0-10 VDC with O/P short-circuit protection
	Max. Current	10 mA
Enclosure	IP65 rated, Standard polycarbonate	
Mounting Type	Retrofit electrical box	
Antenna Options	External antenna	
Temperature Detection	Upto 128 Degree	
Pole Tilt Detection	All Four direction Pole tilt Detection support	
Electrical Specification		
Supply Voltage	Universal AC input 85 VAC-305 VAC, 50/60 Hz	
Switching Capacity	10A 305 VAC	
Protection	Lamp short circuit protection, Lamp open circuit protection, Input short circuit protection, Inrush current limiting protection	
Surge Protection	4 kV	
Operating Temperature	-25°C to +70°C	
Networking and Security		
Protocol	LoRaWAN	
Encryption	AES 128 Bit for MAC and application (DTLS) layers	
Monitoring and Control		
Monitoring Parameter	Voltage, Current, Power factor, Frequency, Power (kW) and Energy (kWh), Relay stuck	
Central Management System	Web-based software that allows remote configuration, Monitoring control and reporting	
Notification	Lamp over voltage, Lamp under voltage, Light fault, Meter chip fault	

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