

STREETLIGHTING IN SMARTCITIES

[ui!] urban lighting innovations

- Streetlighting infrastructures are available all over the world in every city.
- They are covering the entire city in a regular pattern.
- Also they are connected to power-grids.
- Because of these facts, streetlighting infrastructures are the perfect platform to roll-out new technologies and features in the sense of Smartcities.
- But in many cities around the globe, the streetlighting power-grids are off at daytime!
- Turning on such grids 24/7 isn't that easy in many cases, because the entire structure off the grids interconnections have to be changed, including operating- and securityinstructions, as well as operation diagrams and documentation.
- Further all the luminairs have to be exchanged against new ones with some kind of controls, as switching on/off is managed by the grids on/off.



(Coverage of Streetlighting)

RUN IOT-DEVICES 24/7

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- To enable IoT-Devices in streetlighting, Urban Lighting Innovations established a energy storage solution especially for the use in streetlighting poles.
- Construction and design are respecting the special measurements and inside-environment of poles perfectly.
- It is easy to install and free of maintenance.
- Charge controller included.
- The full stack is flexible, so it can be integrated trough the inspection-doors of poles.
- Outputvoltage and capacity are configurated for each application scenario.
- Hard-Reset-Automatic possible!

• Also applicable for buffering LED luminaires in emergency offgrid-mode.



TECHNICAL DATA

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• Diameter of pole (insside):	10cm (minimum)
• Cells:	LiFePO4
Operating temperature:	-20 to 60 °C
Protection Class:	IP64
Over charge protection:	yes
Over discharge protection:	yes
Over current protection:	yes
Temperature protection:	yes
Output voltage:	by design
Capacity:	by design
Measurements:	by design



04.12.2020

INSIDE POLES





NO POWER (9 DAYTIME ?

NO PROBLEM

- Especially developed for the usage inside of poles
- Minimum diameter needed only 10cm
- Up to 580Wh
- Free of maintenance
- Easy installation
- Various output-voltage realizable

EASY TO INTEGRATE





PROOVEN TECHNOLOGY







AIR QUALITY SENSORS & WEATHER STATIONS









SEVERAL GATEWAYS (LoRa & WiFi)



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