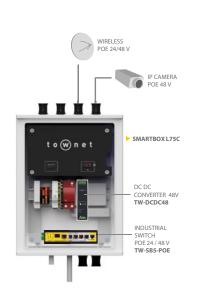


integrated solutions to power supply and control CCTV and WISP systems



Designed to be immediately operational, the SmartBoxes integrate perfectly with the TW-SB series managed POE switches which are capable of delivering 24 and 48V voltages at the same time.





LiFePo4 Batteries



With LiFePO4 lithium batteries, safety and efficiency at the highest possible level.

No deep discharge problems, or battery pack deterioration.

It is possible to carry out over 2000 deep discharge / charge cycles without worrying about the health of the batteries, and weight and volume reduction.

DATA MANAGER

All parameters such as voltages (solar and battery), powers, charge / discharge currents are monitored through the programmable OLED display or via the MQTT cloud, or in the Townet DataManager platform.

Integration contacts are available with Townet PoE switches to decide which are the priority or expendable loads in case of low battery voltage.



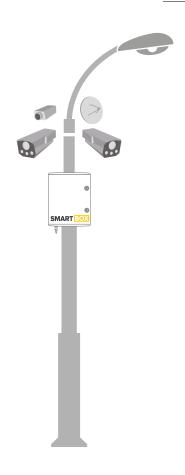




STREET LAMP CYCLE VERSION



The powerful charging power supply always guarantees total recharging of the battery pack in the shortest possible time. In any condition, the maximum charging time for a completely discharged battery never exceeds 6 hours.



Features

reatures					
Codes	L75C	L180C			
Main Power	AC100-240 Street Lamp Cycle				
Outdoor Box	Fiberglass IP68 (ventilation system IP54)				
LifePo4 Lithio Battery	864	Wh	1728 Wh		
Battery Voltage	1	4V	28V		
Total recharge	Fast (15A/2	Fast Charge 10,7A/310Wh 5,5h			
DOD cycles 80%	2000				
IP68 RJ45 Connectors	4 5				
Integrated Display	programmable & instant volts control				
Switch magnetermic	YES				
Surge arrestor	SPD type 2 (20kA)				
Battery protection fuse	20A extra-fast				
Door Opening alarm	YES				
Door Lock	YES				
Power presence check	YES				
Consent / Low battery contact	YES				
Internal temperature control	YES				
Automatic ventilation system	YES				
Dimensions mm (H x W x D)	425 x 325 x 180 434 x 5		04 x 210		
Box Weight Kg (included Mounting Kit)	17,4 (20,9)	19,8 (23,9)	22,5 (26,6)		
Mounting kit for pole installation		YES			
External environmental sensor	optional CO2, PM 1-2.5-4-10, Temperature, Humidity, Pressure				
Remote control and alarms	Datamanager cloud software Included				

Compatible Codes

Switch Manged POE 5P+1SFP (24+48V)	TW-SB5-POE			
Switch Manged POE 8P+4SFP (24+48V)	TW-SB8-POE			
DCDC Converter 48V	TW-D	TW-DCDC48-B		
DCDC Converter 12V	TW-D	TW-DCDC12-B		
CO2 Sensor	TW-MHZ16			
PM 1-2.5-4-10 Sensor	TW-SPS30			
Temperature / Humidity / Pressure sensor	TW-BMEZ80			
Router LTE / 4G + HS	TW-SB-AP-LTE			

External sensors available:



Particulate









SOLAR VERSION



The innovative buck / boost switching is high efficiency solar charge controller (minimum 96%), capable of operating with any type of solar panels regardless of the battery voltage. The charge profile is optimized for LiFePO4 batteries, guaranteeing maximum efficiency and safety. It has a modern MPPT (maximum power point tracking) algorithm to achieve maximum efficiencies even with partial or low insolation.



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Codes	L75S	L180S			
Main Power	Solar Panels				
Outdoor Box	Fiberglass IP68 (ventilation system IP54)				
MC4 panel connectors	2 4				
LifePo4 Lithio Battery	864 Wh	1728 Wh			
Battery Voltage	14V	28V			
Max Charge Current	15A				
Charging algorithm	MPPT BUCK / BOOST				
Max Power PV panels	600Wp (54-72 cells)				
Nominal voltage PV panels	36V (max 54V open circuit)				
DOD cycles 80%	2000				
IP68 RJ45 Connectors	4	5			
Integrated Display	programmable & instant volts control				
Battery protection fuse	20A extra-fast				
Door Opening alarm	YES				
Door Lock	YES				
Consent / Low battery contact	YES				
Internal temperature control	YES				
Automatic ventilation system	YES				
Dimensions mm (H x W x D)	425 x 325 x 180	434 x 504 x 210			
Box Weight Kg (included Mounting Kit)	17,1 (20,6)	22,2 (26,3)			
Mounting kit for pole installation	YES				
External environmental sensor	optional CO2, PM 1-2.5-4-10, Temperature, Humidity, Pressure				
Remote control and alarms	Datamanager cloud software Included				

Compatible Codes

Solar Panel 350W	SOLAR350 (1740 x 1030 x 32) (19,9 Kg)			
Solar Panel 315W	SOLAR315 (1685 x 1000 x 32) (18,7 Kg)			
Switch Manged POE 5P+1SFP (24+48V)	TW-SB5-POE			
Switch Manged POE 8P+4SFP (24+48V)	TW-SB8-PO			
DCDC Converter 48V	TW-DCDC48	TW-DCDC48-B		
DCDC Converter 12V	TW-DCDC12	TW-DCDC12-B		
CO2 Sensor	TW-MHZ16			
PM 1-2.5-4-10 Sensor	TW-SPS30			
Temperature / Humidity / Pressure sensor	TW-BMEZ80			
Router LTE / 4G + HS	TW-SB-AP-LTE			

Total Wh	10	1.5	5 1	7 2	3 2	9
Solar Panel their yield may vary as a function of numerous environmental variables	15	50W	200W	250W	300W	350W