BTN-601(NBIOT/LTE/Cat-M/GSM)
BTN-621 (LoRaWAN)

High Speed, Reliable
ANSI C136.41 NEMA Socket

NB-IoT

LoRaWAN

- NEMA interface, Support 7 pins ANSI C136.41
- BTN-601: NBIOT/LTE/Cat-M/GSM
- BTN-621: LoRa WAN
- ON/OFF, 0-10V Dimming, Power meter monitoring
- **Edge Computing**: 8 timer memories, remote programmable, sunrise/sunset calculation.
- Support OpenAPI, MQTT/ Support OTA upgrade
- Optional GPS sensor.
- Support built-in multi sensors: Tilt/Temperature/open circuit/short circuit, Electriciy data collections...14 kinds of detections.
- Support AC 480V (Optional), DC 24V (made by order)

Input Voltage	AC 100V~240V or DC 24V	Max. connection.	No limitation
Rated Voltage	220Vac or DC24V	Over heat protection	YES
AC Frequency	47Hz~63Hz	IP Rating	IP66
Max. Load	500W	MTBF	>=200K hrs.
Max. current	4A	Operation Temp/Humidity	-40C~70C 0%~95%RH
Self Consumption	<2W	Storage Temp.	-40C~85C
(BTN-601) NBIOT/LTE/Cat-M/GSM	Cat-M: B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/B26/B27/B28/B66/B85 Cat-NB: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66/B71/B85 GSM:850/900/1800/1900MHz	Package (L*W*H)	89x89x120 (mm)
(BTN-621) LoRaWAN	ClassA/B/C, Built-in NSAS (CHG8S03) Channel: EU433,CN470,EU868,AS923,AU915,KR920		

Dimming	0-10V @27mA	Weight	0.3kg
Accuracy	<2%	Case Max. temp.	80C
Harmony	<10%	Safety	CE,CB,FCC
Over Load protection	YES	EMI/EMC	EN55015.EN55022

- Malfunction Detection

Type	Condition	Device Action	Memo
Over Temp.	>95C±2C	Status upload--shut down—Recover to normal after Error is removed.	Inner Temp. Not ambient
Low Temp.	<-25C±2C	Status upload, no shut down, Recover to normal after Error is removed.	Inner Temp. Not ambient
Open Circuit	Wattage <5W±1W	Status upload, no shut down, Recover to normal after Error is removed.	Open circuit or Wattage to Low
Watt Too High	>520W±5W or >4.2A±200mA	Status upload, shut down, Recover to normal after Error is removed.	
Over Voltage	>285V±3V	As above	
Under Voltage	<95V±3V	As above	
Tilt detect	Tilt angle >10±2degree	As above	