

# PROFESSIONAL SOLAR POWERED ASSET TRACKER


SOLARX 120 is a professional solar powered asset tracker with high grade solar panel for wide ranging applications


## LTE & GSM SOLARX 120 4G


LTE CAT 1 and GSM assets tracking devices for wide ranging applications













 | 410g (14.5oz)

 | -30°C ~ +80°C  
(-22°F ~ 176°F)

 | 185.4mm\*84.7mm\*31.3mm  
(5.56" \*2.54" \*0.94" )

 | Rechargeable Li-Polymer  
7500 mAh/ 3.6V

-  Compact Size
-  Easy Installation
-  Waterproof
-  Firmware Over the Air
-  Solar Powered
-  BLE 5.3( full set wireless sensor solution)
-  Low Battery Alarm
-  Removal Alert
-  Data Security (MD5/AES)
-  MQTT Support

### Certificates(Planned):



\*Please reach out to us if you need any certificates in particular

### Standby Time

**UNLIMITED** STANDBY TIME (WITH PROPER SETTING)  
CLICK/SCAN FOR MORE CALCULATION:

<https://www.topflytech.com/en/battery-life-calculator/>

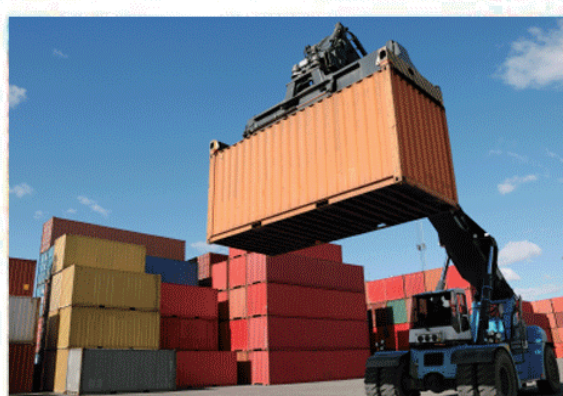


Battery Life Calculator

#### Trailer Tracking



#### Container Tracking



#### Freight Transport

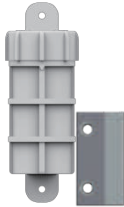












# SolarX 120 SPEC

Network Specifications	
Operating Band	LTE FDD Cat 1: B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B18/B19/B20/B25/B26/B28/B66 LTE TDD Cat 1: B34/B38/B39/B40/B41 GSM:850/900/1800/1900 MHz
Data Transmission	LTE-FDD:Max.10Mbps (DL), Max.5Mbps (UL) LTE-TDD:Max.8.96Mbps(DL), Max.3.1Mbps (UL) GPRS: Max. 85.6Kbps (DL), Max. 85.6Kbps (UL)
GNSS Specifications	
GNSS Chipset	All-In-One GNSS Receiver
GNSS System	GPS + Glonass + Beidou + Galileo +QZSS
Receiver type	47 tracking / 47 acquisitions- channel GNSS receive
Sensitivity	Acquisition: -147dBm Tracking: -166dBm Reacquisition: -159dBm
Horizontal Position Accuracy	Autonomous: < 2 m CEP
TTFF @ -130 dBm with (without) Easy	Cold start: <28s Warm start: <25s Hot start: <1s
Interfaces	
Charging and Data Transmission	Type-C connector
Network, GNSS Antenna	Internal only
LED Indicator	Network, GNSS and Battery
Touch button	For Power On and Off
FOTA	Yes
Light sensor	For Remove Alert
Temperature Sensor	Built-in Temperature sensor
BLE 5.3	Yes
WiFi	2.4 GHz 802.11b (Rx)
Sim Card	Nano Sim Card
Tracker Configuring	TypeC Connector
General Specifications	
Waterproof	IP67
Dimensions	185.4mm*84.7mm*31.3mm (5.56" *2.54" *0.94")
Weight	410g(14.5oz)
Battery	Rechargeable Li-Polymer 7500 mAh/ 3.6V
Standby Time(Without solar charging, 2 hours active tracking per day and stop 2 hours upload one data)	30 minutes reporting: 300 Days 5 minutes reporting: 135 Days
Charging & Data Communication	Type-C cable(Recommend using 5V 1A adaptor, 10 hours charging)
Operating Temperature	-30℃ ~ +80℃ (-22°F ~ 176°F)
Mounting	Magnet/Screw/Double-sided tape
Air Interface Protocol	
Transmit Protocol	TCP, UDP, MQTT, SMS
Data Security & Encryption Option	MD5/ AES128
BLE Accessory Support	Yes
Scheduled Timing/angle/distance Report	Report position and status at preset intervals
Geo-fence	Support up to 64 internal geo-fence regions
Alarms	Support up to 31 types of alarms, including removal alarm, motion alarms, etc.
Industry Certifications( Planned)	
FCC/CE/RCM/NBTC/TDRA/CITC/Anatel/IP67	

# Optional Accessories List

Product Sku	Description	Photo for Reference
TSTH1-B	BLE 5.0 Wireless Temperature and Humidity Sensor	
TSDT1-B	BLE 5.0 Wireless Door and Temperature Sensor	
TSR1-B	BLE 5.0 Wireless Relay	
TA39	Magnet Set (4 units)	
TA46	Sponge for light sensor	
T-button	BLE 5.1 Key Fob & Panic button	
T-sense	BLE 5.1 IP67 temp&movement&door sensor	
T-hub	BLE 5.1 IO extension hub	
T-one	BLE 5.1 Probe temp or temp&humi sensor extender	
TA51	Torque Adjustable Hand Screwdriver	
TA45	USB-A (male) to Type-C (male) cable 100cm	