

T-lite180

Product Specifications
PS-TLITE-01/02-100614

The **T-lite**180 is a lamp based on ultra efficient Light Emitting Diode Technology with built in Lithium Energy Storage Pack and energy management electronics. The **T-lite** can deliver up to 180 Lumens of Light output to a maximum of 7,5 hours on a full Charge or a Maximum of 75 hours at a lightoutput of 15 Lumens. The **T-lite** is operated through a Touch-Switch with dimming function. The **T-lite** can be used as a hanging, or standing Lamp but also as a torchlight with an ergonomically designed handle.



Product HighLights

- The **T-lite** contains 60kj of energy
- Light outputs up to 180 Lumens
- Up to 75 hours on a full charge (Lowest light output)
- Recharged via the LEC Solar Panel

T-lite Performance	Low	Medium	High
Light Output*	15 Lumen	90 Lumen	180 Lumen
Energy Content		60kj	
Energy Consumption	0.8 kj/h	4 kj/h	8 kj/h
Light Hours	75 hours	15 hours	7.5 hours
Light Output loss**	4% after 5 years 8% after 10 years	8% after 5 years 15% after 10 years	15% after 5 years 30% after 10 years
Storage Capacity loss***	10% after 5 years 20% after 10 years	20% after 5 years 40% after 10 years	30% after 5 years 60% after 10 years
Standby Energy Consumption		15 J/ day (5.5 kj/ year)	
Battery Self Discharge		10% / year	

*
Light Output can be adjusted between 180 and 15 Lumens through the touch switch on the lamp (Short touch for ON/OFF, hold touch for dimming).

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Light Output will reduce over time based on total lighting hours & brightness position of the lamp. At full output level (position 1), light output will degrade faster than at lower output levels (position 2 or 3)

Storage Capacity will reduce over time based on the total energy amount withdrawn from the energy-storage-pack. It is recommended to replace the energy-storage-pack when the capacity has been reduced by more than 50% (data are based on 4hours per day usage)

Charging details

Max Charge acceptance	15 kj/hour
Min Charge hours to full	4 hours
Min Charger Supply Voltage	16 VDC
Max Charger Supply Voltage	24 VDC
Max Charge Current	350 mA

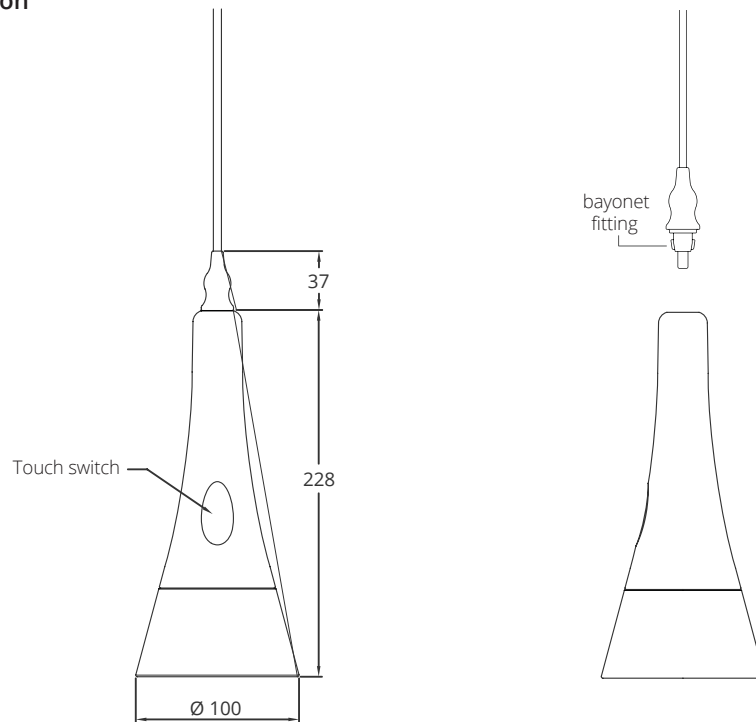
Protection

Charge Input Reverse Polarity protection	YES
Input Voltage Surge Protection	Max 24.5 V x 1 µs
Enclosure protection class	IP 54
CE Compliance	YES
Available Independent Test Reports	Fraunhofer ISE

Mechanical details

Connector System	Sundaya Proprietary Bayonet DC Socket
Operating Temperature Range	-10°C to + 55°C
Storage Temperature Range	-40°C to + 85°C
Enclosure Material	ABS UV stabilized
Lens Material	Poly Carbonate
Connector Materials	Nickel Plated Brass
Product Dimensions (H x D)	228 x 100 mm
Nett Product Weight	200 gr
Packing Options	In single unit pack or as part of T-lite kits

Mechanical Dimension



Functionality

