

Ulitium200

Product Specifications
PS-ULITIUM-01/02-150814

The **Ulitium200** is a lamp based on ultra efficient Light Emitting Diode Technology with built in Lithium Energy Storage Pack and energy management electronics. The **Ulitium** can deliver up to 240 Lumens of Light output to a maximum of 6 hours on a full Charge or a Maximum of 240 hours at a light-output of 6 Lumens. The **Ulitium** is operated through a pull-cord-switch with adjustable cord-length.



Product HighLights

- The **Ulitium** contains 60kj of energy
- Light output up to 240 Lumens
- Lasts up to 240 hours on a full charge (Lowest light output)
- Recharged via the LEC Solar Panel

Ulitium Performance

Step	Pull & Hold					
	Pull	Step 1	Step 2	Step 3	Step 4	Step 5
Light Output*	240 Lumen	120 Lumen	50 Lumen	25 Lumen	10 Lumen	6 Lumen
Light Color Temperature			6000 - 6500 K			
Energy Content			60 kj			
Energy Consumption for Light	8 kj/h	4 kj/h	1.6 kj/h	0.8 kj/h	400 J/h	200 J/h
Energy Required for Recharge	10 kj per used light hour	5 kj per used light hour	2 kj per used light hour	1 kj per used light hour	500 J per used light hour	250 J per used light hour
Light Hours	6 hours	12 hours	30 hours	60 hours	120 hours	240 hours
Light Output loss**	7% after 5 years	4% after 5 years	3% after 5 years	2% after 5 years	1% after 5 years	0.5% after 5 years
	15% after 10 years	7% after 10 years	5% after 10 years	4% after 10 years	2% after 10 years	1% after 10 years
Storage Capacity loss***	25% after 2.5 years	25% after 5 years	25% after 5 years	12% after 2.5 years	12% after 5 years	12% after 5 years
	50% after 5 years	50% after 10 years	50% after 10 years	25% after 5 years	25% after 10 years	25% after 10 years
Standby Energy Consumption			15 J/ day (5.5 kj/ year)			
Battery Self Discharge			3% / month (for more details see Epack60 datasheet)			
LED Lifespan			50000 hours			

* Light Output can be adjusted between 240 and 25 Lumen through short-pull and hold the pull-cord-switch on the lamp (Short pull for ON/OFF, hold the pull-cord for dimming).

** Light Output will reduce over time based on total lighting hours & brightness of the lamp. At full output level, light output will degrade faster than at lower output levels.

*** Storage Capacity will reduce over time based on the total energy amount withdrawn from the energy-storage-pack.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%

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	YES
Enclosure protection class	IP 54 (with plug inserted)
Enclosure protection class	IP 44 (without plug inserted)
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	-20 °C to + 25 °C (1 month)
	-20 °C to + 45 °C (3 month)
	-20 °C to + 60 °C (12 month)
Enclosure Material	ABS UV stabilized
Lens Material	Poly Carbonate
Connector Materials	Nickel Plated Brass
Product Dimensions (H x D)	180 x 100 mm
Nett Product Weight	200 gr
Packing Options	In single unit pack or as part of Ulitium kits

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