

# SOLAR STREET LIGHT

- PRODUCT SPECIFICATIONS STANDALONE SOLAR STREET LIGHT

**ULTRATHON**  
E L E C T R I C



## About Ultrathon Electric

At Ultrathon Electric, we strive to be a leader in providing renewable energy solutions to the global markets along with the corporate and SME segments and the rural belt of the country. As a leading business in the segment we have a track record of delivering high-performing, affordable, and reliable, clean energy projects –all around the world. Together with our end consumers, we are committed to reducing the ever-growing levels of carbon emissions by supplying reliable, renewable energy from the decentralized modes of production sources, delivering new, innovative solutions analysing energy performances and investing in revolutionary clean energy projects and technologies.

The sun is an in-exhaustive, reliable, non-polluting source of power. Concerns over global climatic change, local air pollution and resource scarcity make photovoltaic (PV) an increasingly attractive energy supply technology.

Using solar energy with LEDs instead of CFL provides a very efficient solution. Solar powered outdoor lighting products are ideal for lighting the area in remote locations where the electricity is unavailable or erratic.

Even in urban areas, these find great usage to reduce dependency on conventional power and contribute towards green energy.

Reliable and long life makes this solution effective in fulfilling our present and future lighting requirements.

Ultrathon Electric was founded in 2017. In Street Light Division, we mainly focus on high power LED Products, designs, manufacturing and direct sales. We specialize in Solar Street Lights with smart integrated system, high bay lights, flood lights and more with regard to LED and Solar.

With our efficient and capable management, we got strong R&D and production abilities. We are professionals in Energy Savings, Environment Friendly Long lasting LED Products. Our group always works their way to solve major problems in production / material / heat dissipation, thus creating a new age of LED lightings.

In the near future, LED lighting products with its modern designs and advantages is bound to replace the traditional lightings all around the world step by step. We sincerely welcome all clients to co—operate with us and to create a Brighter Future Together.

# ULTRATHON STANDALONE

MODEL NO.: UEL FCL



Model No	UEL FCL 7 W	UEL FC 9 W	UEL FC 12 W	UEL FC 15 W	UEL FC 18 W	UEL FC 20 W
<b>Housing</b>	Die Casting Aluminium Alloy with IP 67					
<b>Gasket</b>	Sillicon Gasket / Water Proof / Splash Proof					
<b>Lens Cover</b>	Poly Carbonate Lens Cover					
<b>Driver</b>	MPPT Charge Controller >95% Efficiency with Built in LED Driver PWM Optional					
<b>LED Chip</b>	Osram Oslon High Power Square LED Chip with LM 80					
<b>Battery for 2- 3 Days Autonomy</b>	Lead Acid Tubular / Tubular Gel MNRE Approved	Lead Acid Tubular / Tubular Gel MNRE Approved	Lead Acid Tubular / Tubular Gel MNRE Approved	Lead Acid Tubular / Tubular Gel MNRE Approved	Lead Acid Tubular / Tubular Gel MNRE Approved	Lead Acid Tubular / Tubular Gel MNRE Approved
<b>Dimming</b>	4 HRS -100% / 8 HRS - 33% DIMMING OPTIONAL DUSK TO DAWN OPERATION					
<b>Lumen</b>	980 - 1050	1260 -1350	1680-1800	2100-2250	2520-2700	2800-3000
<b>Diamention in mm</b>	328 X 80 X 74					

## KEY BENEFITS THAT ULTRATHON SOLAR STREET LIGHTS BRINGS TO ITS CLIENTS

- TAKE ADVANTAGE OF LONGER LIFESPANS
- PERIODIC MAINTENANCE OF BATTERIES ONLY
- HIGHLY TECHNOLOGICAL SYSTEMS
- 5 YEARS ON SITE WARRANTY
- VAST CUSTOMIZATION AVAILABLE
- HIGH LUMINOUS EFFICACY OF 150 LM/WATT TO MAXIMIZE LUMINARY PERFORMANCE
- MPPT CHARGE CONTROLLER FOR MAXIMUM EFFICIENCY
- OPTIONAL FACTORY SET DIMMING PROFILE
- PRESSURE DIE-CAST ALUMINUM HOUSING FOR STURDINESS AND EXCELLENT HEAT DISSIPATION
- PRESERVES LANDSCAPE AS NO TRENCHING FOR CABLING REQUIRED
- BRINGS LIGHT TO AREAS WITHOUT ACCESS TO ELECTRIC GRID
- STURDY CONSTRUCTION FOR LONG LIFE

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### Technical Specifications: ULTRATHON® All In One Solar Street Light

Model No.	6W LED	9W LED	12W LED	15W LED
<b>Physical Parameters</b>				
Power of PV module (W)	25Wp	40Wp	40Wp	40Wp
Lithium Battery Capacity (1 Day - 1.5 Days )	Li-ion 11.1V/6.6AH Li-FePO4 12.8V/6AH	Li-ion 11.1V/11AH Li-FePO4 12.8V/9AH	Li-ion 11.1V/13AH Li-FePO4 12.8V/12AH	Li-ion 11.1V/15AH Li-FePO4 12.8V/13.5AH
Lithium Battery Capacity (2 Days )	Li-ion 11.1V/10.4AH Li-FePO4 12.8V/9AH	Li-ion 11.1V/15.4AH Li-FePO4 12.8V/12AH	Li-ion 11.1V/19.8AH Li-FePO4 12.8V/16.5AH	Li-ion 11.1V/23.4AH Li-FePO4 12.8V/21AH
PIR Sensor	Provided	Provided	Provided	Provided
Net Weight of Product (Kg)	6.3kg	9kg	10kg	12kg
Dimension of Product (mm)	480(L) x 400(W) x 43(H)	710 (L) x 517(W) x 43(H)	710(L) x 517(W) x 43(H)	710(L) x 517(W) x 43(H)
<b>Driver Parameters</b>				
Charge Controller Type	MPPT	MPPT	MPPT	MPPT
LED Driver Efficiency	>95%	>95%	>95%	>9%
<b>Light Parameters</b>				
Colour Temperature	5500K-6500K	5500K-6500K	5500K-6500K	5500K-6500K
Typical Luminous Flux (Lm)	720	1080	1440	1800
Light backup Time ( 1 Day - 1.5 Days )	17Hr-18Hr	17Hr-18Hr	16Hr-17Hr	14Hr-15Hr
Light backup Time ( 2 Days )	23Hr-24Hr	23Hr-24Hr	23Hr-24Hr	23Hr-24Hr
<b>Packing parameters</b>				
Dimension Of carton	600(L) x 440(W) x 110(H)	920(L) X 580(W) X 150(H)	920(L) X 580(W) X 150(H)	920(L) X 580(W) X 150(H)
Gross Weight of Product (Kg)	7.5kg	12.6Kg	13.4Kg	14.5Kg
<b>Mounting Recommendations</b>				
Top of Pole OD (mm)	40mm-46mm	70mm-76mm	70mm-76mm	70mm-76mm
Recommended Installation Height (Mtr.)	5Mtr.	5Mtr.	5Mtr.	5Mtr.
<b>Protection Provided</b>				
All In One Protections	Battery deep discharge protection, Over charge protection, Load open Protection, Charging and battery indication, Reverse current flow protection, Temperature compensation, Short circuit protection			
All In One Operation	Light will glow in full bright mode for first 4Hrs., After 4Hrs. Light will Dim to 33% power and motion sensor will activate for detection of motion. If any motion is detected in 12M area around the Light, then it will glow in full mode for 2min., After that it will again come to 33% Power.			

Note: Subject to errors and technical modifications within the scope of product improvement



### Technical Specifications: ULTRATHON® All In One Solar Street Light

Model No.	18W LED	20W LED	25W LED	30W LED
<b>Physical Parameters</b>				
Power of PV module (W)	50Wp	60Wp	75Wp	75Wp
Lithium Battery Capacity (1 Day - 1.5 Days )	Li-ion 11.1V/19.8AH Li-FePO4 12.8V/18AH	Li-ion 11.1V/23.4AH Li-FePO4 12.8V/21AH	Li-ion 11.1V/26AH Li-FePO4 12.8V/24AH	Li-ion 11.1V/32AH Li-FePO4 12.8V/28.5AH
Lithium Battery Capacity (2 Days )	Li-ion 11.1V/28.6AH Li-FePO4 12.8V/24AH	Li-ion 11.1V/33AH Li-FePO4 12.8V/27AH	Li-ion 11.1V/39AH Li-FePO4 12.8V/34.5AH	Li-ion 11.1V/48.4AH Li-FePO4 12.8V/42AH
PIR Sensor	Provided	Provided	Provided	Provided
Net Weight of Product (Kg)	13.5kg	15kg	19kg	22kg
Dimension of Product (mm)	710 (L) x 517(W) x 43(H)	900(L) x 560(W) x 43(H)	1050(L)x 560(W) x 43(H)	1050(L)x 560(W) x 43(H)
<b>Driver Parameters</b>				
Charge Controller Type	MPPT	MPPT	MPPT	MPPT/MPPT
LED Driver Efficiency	>95%	>95%	>95%	>95%
<b>Light Parameters</b>				
Colour Temperature	5500K-6500K	5500K-6500K	5500K-6500K	5700K
Typical Luminous Flux (Lm)	1800	2400	3000	3600
Light backup Time ( 1 Day - 1.5 Days )	16Hr-17Hr	17Hr-18Hr	15Hr-16Hr	15Hr-16Hr
Light backup Time ( 2 Days )	23Hr-24Hr	23Hr-24Hr	23Hr-24Hr	23Hr-24Hr
<b>Packing parameters</b>				
Dimension Of carton	920(L) X 580(W) X 150(H)	1120(L) X 640(W) X 150(H)	1250(L)x 640(W) x 150(H)	1250(L)x 640(W) x 150(H)
Gross Weight of Product (Kg)	16.8Kg	20.8kg	23Kg	25Kg
<b>Mounting Recommendations</b>				
Top of Pole OD (mm)	70mm-76mm	70mm-76mm	70mm-76mm	70mm-76mm
Recommended Installation Height (Mtr.)	5Mtr. - 6Mtr.	5Mtr. - 6Mtr.	5Mtr. - 6Mtr.	5Mtr. - 6Mtr.
<b>Protection Provided</b>				
All In One Protections	Battery deep discharge protection, Over charge protection, Load open Protection, Charging and battery indication, Reverse current flow protection, Temperature compensation, Short circuit protection			
All In One Operation	Light will glow in full bright mode for first 4Hrs., After 4Hrs. Light will Dim to 33% power and motion sensor will activate for detection of motion. If any motion is detected in 12M area around the Light, then it will glow in full mode for 2min., After that it will again come to 33% Power.			

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**Technical Specifications: ULTRATHON® All In One Solar Street Light**

Model No.	40W LED	50W LED	60W LED
<b>Physical Parameters</b>			
Power of PV module (W)	100Wp	120Wp	150Wp
Lithium Battery Capacity (1 Day - 1.5 Days )	Li-ion 11.1V/44.2AH Li-FePO4 12.8V/36AH	Li-ion 11.1V/52AH Li-FePO4 12.8V/45AH	Li-ion 11.1V/63.8AH Li-FePO4 12.8V/54AH
Lithium Battery Capacity (2 Days )	Li-ion 11.1V/63.8AH Li-FePO4 12.8V/54AH	Li-ion 11.1V/85.8AH Li-FePO4 12.8V/69AH	Li-ion 11.1V/96.2AH Li-FePO4 12.8V/81AH
PIR Sensor	Provided	Provided	Provided
Net Weight of Product (Kg)	25kg	27.5kg	32kg
Dimension of Product (mm)	1350(L)x 560 (W)x 43(H)	1350(L)x 560(W) x 43(H)	1710(L)x 560(W) x 43(H)
<b>Driver Parameters</b>			
Charge Controller Type	MPPT	MPPT	MPPT
LED Driver Efficiency	>95%	>95%	>95%
<b>Light Parameters</b>			
Colour Temperature	5700K	5700K	5700K
Typical Luminous Flux (Lm)	5000	6250	7500
Light backup Time ( 1 Day - 1.5 Days )	15Hr-16Hr	15Hr-16Hr	15Hr-16Hr
Light backup Time ( 2 Days )	23Hr-24Hr	23Hr-24Hr	23Hr-24Hr
<b>Packing parameters</b>			
Dimension Of carton	1545(L)X650(W)X150(H)	1545(L)X650(W)X150(H)	1905(L)X650(W)X150(H)
Gross Weight of Product (Kg)	28kg	30kg	34.3kg
<b>Mounting Recommendations</b>			
Top of Pole OD (mm)	70mm-76mm	70mm-76mm	70mm-76mm
Recommended Installation Height (Mtr.)	6Mtr.-8Mtr.	6Mtr.-8Mtr.	6Mtr.-8Mtr.
<b>Protection Provided</b>			
All In One Protections	Battery deep discharge protection, Over charge protection, Load open Protection, Charging and battery indication, Reverse current flow protection, Temperature compensation, Short circuit protection		
All In One Operation	Light will glow in full bright mode for first 4Hrs., After 4Hrs. Light will Dim to 33% power and motion sensor will activate for detection of motion. If any motion is detected in 12M area around the Light, then it will glow in full mode for 2min., After that it will again come to 33% Power.		

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# SOLAR STREET LIGHT

- PRODUCT SPECIFICATIONS SEMI INTEGRATED SOLAR STREET LIGHT

**ULTRATHON**  
E L E C T R I C



[www.ultrathonelectric.com](http://www.ultrathonelectric.com)



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# ULTRATHON SEMI INTEGRATED

MODEL NO.: UEL SI - FS



Model No	UELSI FS 9 W	UEL SI FS 12 W	UEL SI FS 15 W	UEL SI FS 18 W	UEL SI FS 20 W	UEL SI FS 24 W
<b>Housing</b>	Die Casting Aluminium Alloy with IP 67					
<b>Gasket</b>	Sillicon Gasket / Water Proof / Splash Proof					
<b>Lens Cover</b>	Poly Carbonate Lens Cover					
<b>Driver</b>	MPPT Charge Controller >95% Efficiency with Built in LED Driver In built Cell balancer and BMS Optional					
<b>LED Chip</b>	Osram Oslon High Power Square LED Chip with LM 80					
<b>Battery packs for 3 Days Autonomy and 33% Dimming Feature</b>	154 Whr Li / LFP with BIS approved Cells	230 Whr Li / LFP with BIS approved Cells	280 Whr Li / LFP with BIS approved Cells	330 Whr Li / LFP with BIS approved Cells	360 Whr Li / LFP with BIS approved Cells	460 Whr Li / LFP with BIS approved Cells
<b>Dimming</b>	4 HRS -100% / 8 HRS - 33% DIMMING DUSK TO DAWN OPERATION / PR MOTION SENSOR					
<b>Lumen</b>	1260 - 1350	1680 -1800	2100-2250	2520-2700	2800-3000	3500-3750
<b>Diamention in mm</b>	339 X 144 X 110					

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- TAKE ADVANTAGE OF LONGER LIFESPANS
- REDUCED POLLUTION
- SET IT AND FORGET IT MAINTENANCE
- HIGHLY TECHNOLOGICAL SYSTEMS
- 5 YEARS ON SITE WARRANTY
- VAST CUSTOMIZATION AVAILABLE
- HIGH LUMINOUS EFFICACY OF 150 LM/WATT TO MAXIMIZE LUMINARY PERFORMANCE
- MPPT CHARGE CONTROLLER FOR MAXIMUM EFFICIENCY
- FACTORY SET DIMMING PROFILE ALONG WITH OPTIONAL PIR SENSOR
- PRESSURE DIE-CAST ALUMINUM HOUSING FOR STURDINESS AND EXCELLENT HEAT DISSIPATION
- PRESERVES LANDSCAPE AS NO TRENCHING FOR CABLING REQUIRED
- BRINGS LIGHT TO AREAS WITHOUT ACCESS TO ELECTRIC GRID
- STURDY CONSTRUCTION FOR LONG LIFE

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