

TL-HNST-S SERIES

Solar Street Lighting



Luminaire General Specification

TL-HNST-S-01

LED Chip Manufacturer	Lumileds
Correlated Color Temperature	Single color (3000K- 6500K)
MacAdam	3
Color Rendering Index	(CRI)80
Life -A	50,000 L90B10 @ 5 years
Life -B	100,000 L90B10 @10 years
Operating Temperature	-20° c to +60° c
IP Rating	IP66
IK Rating	IK08
Light Distribution	I, II , III, IV
Charger controller	MPPT
Solar type	Monocrystalline silicon
Lighting up per day	12 hours
Rainy day	2 - 3 Days
Maximum air humidity	95%
Warranty	5 Years / 10 Years

Luminaire 30W

Luminous Flux *(lm)	4500
Power of solar module	150W
Battery LifePo4	56Ah/12.8V / 5 Years Warranty

Luminaire 50W

Luminous Flux *(lm)	7500
Power of solar module	300W
Battery LifePo4	112Ah/12.8V / 5 Years Warranty

Luminaire 60W

Luminous Flux *(lm)	9000
Power of solar module	300W
Battery LifePo4	112Ah/12.8V / 5 Years Warranty

Luminaire 80W

Luminous Flux *(lm)	12000
Power of solar module	450W
Battery LifePo4	75Ah/25.6V / 5 Years Warranty

Pole

Pole Body	6063-T5 aluminum and Oxidation / Steel
Pole Hight	6 - 12 Meter (Other Heights on Request)
Warranty	10 years

Operating Mode

Standard: 2 hours 100% + 2 hours 80% + 6 hours 60% + 2 hours 40%

Battery capacity can be increased to achieve any requested operating demand.

Note: Customization Available as per Project Specification

Hybrid System with Grid Power On Request



TL-HNST-S-02



Luminaire General Specification

LED Chip Manufacturer	Lumileds
Correlated Color Temperature	Single color (3000K- 6500K)
MacAdam	3
Color Rendering Index	(CRI)80
Life -A	50,000 L90B10 @ 5 years
Life -B	100,000 L90B10 @10 years
Operating Temperature	-20°c to +60°c
IP Rating	IP66
IK Rating	IK08
Light Distribution	I, II , III, IV
Charger controller	MPPT
Solar type	Monocrystalline silicon
Lighting up per day	12 hours
Rainy day	2 - 3 Days
Maximum air humidity	95%
Warranty	5 Years / 10 Years

Luminaire 2x30W

Luminous Flux *(lm)	2x4500
Power of solar module	300W
Battery LifePo4	56Ah/25.6V / 5 Years Warranty

Luminaire 2x60W

Luminous Flux *(lm)	2x9000
Power of solar module	600W
Battery LifePo4	112Ah/25.6V / 5 Years Warranty

Luminaire 2x80W

Luminous Flux *(lm)	2x12000
Power of solar module	900W
Battery LifePo4	150Ah/25.6V / 5 Years Warranty

Pole

Pole Body	6063-T5 aluminum and Oxidation / Steel
Pole Hight	6 - 12 Meter (Other Heights on Request)
Warranty	10 years

Operating Mode

Standard: 2 hours 100% + 2 hours 80% + 6 hours 60% + 2 hours 40%
Battery capacity can be increased to achieve any requested operating demand.

Note: Customization Available as per Project Specification

Hybrid System with Grid Power On Request



TL-HNST-S-03

Luminaire General Specification



LED Chip Manufacturer	Lumileds
Correlated Color Temperature	Single color (3000K- 6500K)
MacAdam	3
Color Rendering Index	(CRI)80
Life -A	50,000 L90B10 @ 5 years
Life -B	100,000 L90B10 @10 years
Operating Temperature	-20° c to +60° c
IP Rating	IP66
IK Rating	IK08
Light Distribution	I, II , III, IV
Charger controller	MPPT
Solar type	Monocrystalline silicon
Lighting up per day	12 hours
Rainy day	2 - 3 Days
Maximum air humidity	95%
Warranty	5 Years / 10 Years

Luminaire 30W

Luminous Flux *(lm)	4500
Power of solar module	150W
Battery LifePo4	56Ah/12.8V / 5 Years Warranty

Luminaire 50W

Luminous Flux *(lm)	7500
Power of solar module	300W
Battery LifePo4	112Ah/12.8V / 5 Years Warranty

Luminaire 60W

Luminous Flux *(lm)	9000
Power of solar module	300W
Battery LifePo4	112Ah/12.8V / 5 Years Warranty

Luminaire 80W

Luminous Flux *(lm)	12000
Power of solar module	450W
Battery LifePo4	75Ah/25.6V / 5 Years Warranty

Pole

Pole Body	6063-T5 aluminum and Oxidation / Steel
Pole Height	6 - 12 Meter (Other Heights on Request)
Warranty	10 years

Operating Mode

Standard: 2 hours 100% + 2 hours 80% + 6 hours 60% + 2 hours 40%
Battery capacity can be increased to achieve any requested operating demand.

Note: Customization Available as per Project Specification

Hybrid System with Grid Power On Request



TL-HNST-S-04

Luminaire General Specification



LED Chip Manufacturer	Lumileds
Correlated Color Temperature	Single color (3000K- 6500K)
MacAdam	3
Color Rendering Index	(CRI)80
Life -A	50,000 L90B10 @ 5 years
Life -B	100,000 L90B10 @10 years
Operating Temperature	-20°c to +60°c
IP Rating	IP66
IK Rating	IK08
Light Distribution	I, II , III, IV
Charger controller	MPPT
Solar type	Monocrystalline silicon
Lighting up per day	12 hours
Rainy day	2 - 3 Days
Maximum air humidity	95%
Warranty	5 Years / 10 Years

Luminaire 2x30W

Luminous Flux *(lm)	2x4500
Power of solar module	300W
Battery LifePo4	56Ah/25.6V / 5 Years Warranty

Luminaire2x60W

Luminous Flux *(lm)	2x9000
Power of solar module	600W
Battery LifePo4	112Ah/25.6V / 5 Years Warranty

Luminaire 2x80W

Luminous Flux *(lm)	2x12000
Power of solar module	900W
Battery LifePo4	150Ah/25.6V / 5 Years Warranty

Pole

Pole Body	6063-T5 aluminum and Oxidation / Steel
Pole Hight	6 - 12 Meter (Other Heights on Request)
Warranty	10 years

Operating Mode

Standard: 2 hours 100% + 2 hours 80% + 6 hours 60% + 2 hours 40%
Battery capacity can be increased to achieve any requested operating demand.

Note: Customization Available as per Project Specification

Hybrid System with Grid Power On Request



TL-HNST-S-05

Luminaire General Specification



LED Chip Manufacturer	Lumileds
Correlated Color Temperature	Single color (3000K- 6500K)
MacAdam	3
Color Rendering Index	(CRI)80
Life -A	50,000 L90B10 @ 5 years
Life -B	100,000 L90B10 @10 years
Operating Temperature	-20° c to +60° c
IP Rating	IP66
IK Rating	IK08
Light Distribution	I, II , III, IV
Charger controller	MPPT
Solar type	Monocrystalline silicon
Lighting up per day	12 hours
Rainy day	2 - 3 Days
Maximum air humidity	95%
Warranty	5 Years / 10 Years

Luminaire 30W

Luminous Flux *(lm)	4500
Power of solar module	150W
Battery LifePo4	56Ah/12.8V / 5 Years Warranty

Luminaire 50W

Luminous Flux *(lm)	7500
Power of solar module	300W
Battery LifePo4	112Ah/12.8V / 5 Years Warranty

Luminaire 60W

Luminous Flux *(lm)	9000
Power of solar module	300W
Battery LifePo4	112Ah/12.8V / 5 Years Warranty

Luminaire 80W

Luminous Flux *(lm)	12000
Power of solar module	450W
Battery LifePo4	75Ah/25.6V / 5 Years Warranty

Pole

Pole Body	6063-T5 aluminum and Oxidation / Steel
Pole Height	6 - 12 Meter (Other Heights on Request)
Warranty	10 years

Operating Mode

Standard: 2 hours 100% + 2 hours 80% + 6 hours 60% + 2 hours 40%
Battery capacity can be increased to achieve any requested operating demand.

Note: Customization Available as per Project Specification

Hybrid System with Grid Power On Request



TL-HNST-S-06

Luminaire General Specification



LED Chip Manufacturer	Lumileds
Correlated Color Temperature	Single color (3000K- 6500K)
MacAdam	3
Color Rendering Index	(CRI)80
Life -A	50,000 L90B10 @ 5 years
Life -B	100,000 L90B10 @10 years
Operating Temperature	-20°c to +60°c
IP Rating	IP66
IK Rating	IK08
Light Distribution	I, II , III, IV
Charger controller	MPPT
Solar type	Monocrystalline silicon
Lighting up per day	12 hours
Rainy day	2 - 3 Days
Maximum air humidity	95%
Warranty	5 Years / 10 Years

Luminaire 2x30W

Luminous Flux *(lm)	2x4500
Power of solar module	300W
Battery LifePo4	56Ah/25.6V / 5 Years Warranty

Luminaire2x60W

Luminous Flux *(lm)	2x9000
Power of solar module	600W
Battery LifePo4	112Ah/25.6V / 5 Years Warranty

Luminaire 2x80W

Luminous Flux *(lm)	2x12000
Power of solar module	900W
Battery LifePo4	150Ah/25.6V / 5 Years Warranty

Pole

Pole Body	6063-T5 aluminum and Oxidation / Steel
Pole Hight	6 - 12 Meter (Other Heights on Request)
Warranty	10 years

Operating Mode

Standard: 2 hours 100% + 2 hours 80% + 6 hours 60% + 2 hours 40%

Battery capacity can be increased to achieve any requested operating demand.

Note: Customization Available as per Project Specification

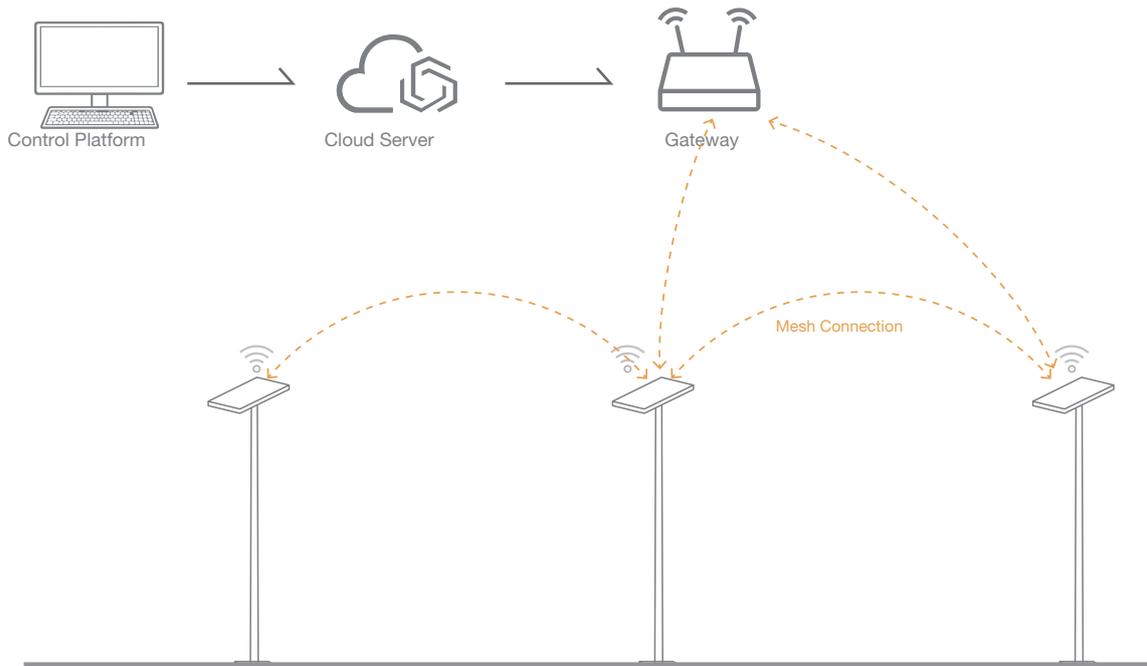
Hybrid System with Grid Power On Request



Wireless Smart Control System

Experience the next level of convenience with our Wireless Smart Control System for solar streetlights. This innovative technology enables seamless monitoring and management of solar streetlights via smartphones or computers. Effortlessly track real-time status, adjust lighting schedules, and optimize performance for entire groups of lights with just a few clicks.

Designed for efficiency and ease, the system reduces maintenance efforts by providing instant alerts for any issues, ensuring minimal downtime. Perfect for large-scale installations, it empowers users with complete control and adaptability, making solar streetlight management smarter, faster, and more efficient than ever before. Upgrade to intelligent lighting solutions today!



Hybrid System with Grid Power

The hybrid solar light system with AC power as backup is designed to make the solar lights more smarter and more reliable in very challenge conditions especially the area where the solar radition is not stable and strong all the year round. The system automatically monitors the battery voltage and will switch between solar power and 220V grid electricity, so the lights will be functional well no matter the weather is good or not.

