

# TL-HNPT-S SERIES

Solar Garden Lighting



# TL-HNPT-S-01



## Luminaire General Specification

LED Chip Manufacturer	Lumileds
Correlated Color Temperature	Single color (3000K / 4000K / 5700K)
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	360°
Charger controller	MPPT
Solar type	Monocrystalline silicon
Lighting up per day	12 hours
Rainy day	2 Days
Maximum air humidity	95%
Warranty	5 Years / 10 Years

### Luminaire 15W

Luminous Flux *(lm)	1800
Power of solar module	100W
BatteryLifePo4	30Ah/12.8V

### Luminaire 20W

Luminous Flux *(lm)	2400
Power of solar module	100W
BatteryLifePo4	40Ah/12.8V

### Luminaire 30W

Luminous Flux *(lm)	3600
Power of solar module	150W
BatteryLifePo4	56Ah/12.8V

### Pole

Pole Body	6063-T5 aluminum and Oxidation / Steel
Pole Hight	3 - 6 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-HNPT-S-02

## Luminaire General Specification

LED Chip Manufacturer	Lumileds
Correlated Color Temperature	Single color (3000K / 4000K / 5700K)
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	360°
Charger controller	MPPT
Solar type	Monocrystalline silicon
Lighting up per day	12 hours
Rainy day	2 Days
Maximum air humidity	95%
Warranty	5 Years / 10 Years

### Luminaire 15W

Luminous Flux *(lm)	1800
Power of solar module	100W
Battery LifePo4	30Ah/12.8V

### Luminaire 20W

Luminous Flux *(lm)	2400
Power of solar module	100W
Battery LifePo4	40Ah/12.8V

### Luminaire 30W

Luminous Flux *(lm)	3600
Power of solar module	150W
Battery LifePo4	56Ah/12.8V

### Pole

Pole Body	6063-T5 aluminum and Oxidation / Steel
Pole Hight	3 - 6 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-HNPT-S-03

## Luminaire General Specification



LED Chip Manufacturer	Lumileds
Correlated Color Temperature	Single color (3000K / 4000K / 5700K)
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	360°
Charger controller	MPPT
Solar type	Monocrystalline silicon
Lighting up per day	12 hours
Rainy day	2 Days
Maximum air humidity	95%
Warranty	5 Years / 10 Years

### Luminaire 15W

Luminous Flux *(lm)	1800
Power of solar module	100W
Battery LifePo4	30Ah/12.8V

### Luminaire 20W

Luminous Flux *(lm)	2400
Power of solar module	100W
Battery LifePo4	40Ah/12.8V

### Luminaire 30W

Luminous Flux *(lm)	3600
Power of solar module	150W
Battery LifePo4	56Ah/12.8V

### Pole

Pole Body	6063-T5 aluminum and Oxidation / Steel
Pole Hight	3 - 6 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-HNPT-S-04



## Led Luminaire

Real Luminaire Efficacy (LER)	120 lm/W
Wattage	40W
Luminous Flux *(lm)	4,600
Correlated Color Temperature	Single color (3000K - 5700K)
MacAdam	3
Color Rendering Index	(CRI) ≥80
LED Chip Manufacturer	Lumileds
Life- A	50,000 L90B10 @ 5 years
Life- B	100,000 L90B10 @10 years
Operating Temperature	-20° c t o +60° c
IP Rating	IP65 / IP66 on Request
Mechanical impact protection	IK 08
Warranty	5 Years / 10 Years

## Battery

Location	Built into Luminaire
Technology	Life Po4 lithium battery
Capacity (Ah)*	90
Nominal voltage	12 V
Lifespan	3000 cycle (8 Years)
Warranty	5 Years

## Solar Module

Tech/Brand	Monocrystalline silicon
Power (W)	120
Voltage	24V
Lifespan	≥ 20 years
Warranty	10 Years

## Pole

Pole Body	HDG Steel / Aluminium
Pole Hight	5m /Other Heights on Request
Lighting up per day	12 hours
Rainy day	3 Days
Operating temperature	from -20° up to +60
Maximum air humidity	95%
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**





LED Chip Manufacturer	Lumileds
Correlated Color Temperature	Single color (3000K / 4000K / 5700K)
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	360°
Charger controller	MPPT
Solar type	Monocrystalline silicon
Lighting up per day	12 hours
Rainy day	2 Days
Maximum air humidity	95%
Warranty	5 Years / 10 Years

**Luminaire 15W**

Luminous Flux *(lm)	1800
Power of solar module	100W
BatteryLifePo4	30Ah/12.8V

**Luminaire 20W**

Luminous Flux *(lm)	2400
Power of solar module	100W
BatteryLifePo4	40Ah/12.8V

**Luminaire 30W**

Luminous Flux *(lm)	3600
Power of solar module	150W
BatteryLifePo4	56Ah/12.8V

**Pole**

Pole Body	6063-T5 aluminum and Oxidation / Steel
Pole Height	3 - 6 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.**

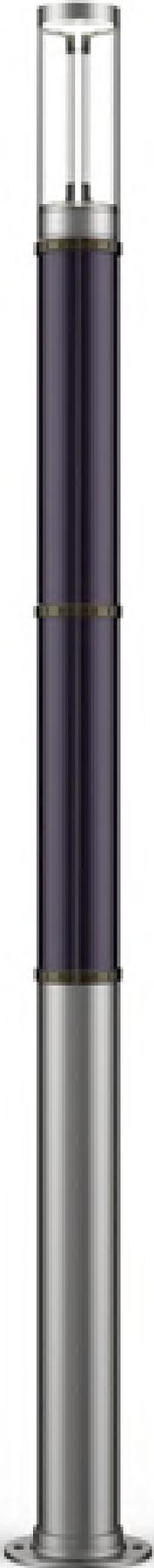
**Note: Customization Available as per Project Specification**

**Hybrid System with Grid Power On Request**



## TL-HNPT-S-06

## Luminaire General Specification



LED Chip Manufacturer	Lumileds
Correlated Color Temperature	Single color (3000K / 4000K / 5700K)
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	360°
Charger controller	MPPT
Solar type	Monocrystalline silicon
Lighting up per day	12 hours
Rainy day	2 Days
Maximum air humidity	95%
Warranty	5 Years / 10 Years

### Luminaire 15W

Luminous Flux *(lm)	1800
Power of solar module	100W
BatteryLifePo4	30Ah/12.8V

### Luminaire 20W

Luminous Flux *(lm)	2400
Power of solar module	100W
BatteryLifePo4	40Ah/12.8V

### Luminaire 30W

Luminous Flux *(lm)	3600
Power of solar module	150W
BatteryLifePo4	56Ah/12.8V

### Pole

Pole Body	6063-T5 aluminum and Oxidation / Steel
Pole Hight	3 - 6 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-HNPT-S-07

## Luminaire General Specification

LED Chip Manufacturer	Lumileds
Correlated Color Temperature	Single color (3000K / 4000K / 5700K)
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
Charger controller	MPPT
Solar type	Monocrystalline silicon
Lighting up per day	12 hours
Rainy day	2 Days
Maximum air humidity	95%
Warranty	5 Years / 10 Years

### Luminaire 15W

Luminous Flux *(lm)	1800
Power of solar module	100W
Battery LifePo4	30Ah/12.8V

### Luminaire 20W

Luminous Flux *(lm)	2400
Power of solar module	100W
Battery LifePo4	40Ah/12.8V

### Luminaire 30W

Luminous Flux *(lm)	3600
Power of solar module	150W
Battery LifePo4	56Ah/12.8V

### Pole

Pole Body	6063-T5 aluminum and Oxidation / Steel
Pole Hight	3 - 6 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-HNPT-S-08



## Luminaire General Specification

LED Chip Manufacturer	Lumileds
Correlated Color Temperature	Single color (3000K / 4000K / 5700K)
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	120°
Charger controller	MPPT
Solar type	Monocrystalline silicon
Lighting up per day	12 hours
Rainy day	2 Days
Maximum air humidity	95%
Warranty	5 Years / 10 Years

### Luminaire 15W

Luminous Flux *(lm)	1800
Power of solar module	100W
Battery LifePo4	30Ah/12.8V

### Luminaire 20W

Luminous Flux *(lm)	2400
Power of solar module	100W
Battery LifePo4	40Ah/12.8V

### Luminaire 30W

Luminous Flux *(lm)	3600
Power of solar module	150W
Battery LifePo4	56Ah/12.8V

### Pole

Pole Body	6063-T5 aluminum and Oxidation / Steel
Pole Hight	3 - 6 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-HNPT-S-09



### LED LUMINAIRE

Real Luminaire Efficacy (LER)	120 lm/W
Luminous Flux *(lm)	600
Correlated Color Temperature	Single color
Color Rendering Index (CRI)	≥80
LED Chip Manufacturer	Lumileds
MacAdam	3
Life -A	50,000 L90B10 @ 5 years
Life -B	100,000 L90B10 @ 10 years
Warranty	5 Years / 10 Years

### BATTERY

Location	Built in to Luminaire
Technology	Lithium technology
Capacity (Ah)	10
Nominal voltage	12 V
Lifespan	3000 cycle (5 to 8 Years)
Warranty	5 Years

### SOLAR MODULE

Tech/Brand	Monocrystalline silicon
Power (W)	30
Voltage	24V
Lifespan	≥ 20 years
Warranty	10 Years

### POLE

Pole Body	Aluminum
Pole Hight	600mm/800mm/1000mm /Custom
Lighting up per day	12 hours
Rainy day	3 Days
IP Rating	IP65
IK Rating	IK 08
Operating temperature	from -20° up to +60
Maximum air humidity	95%
Warranty	5 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-HNPT-S-10



### LED LUMINAIRE

Real Luminaire Efficacy (LER)	120 lm/W
Luminous Flux *(lm)	300
Correlated Color Temperature	Single color (3000K -6500K)
Color Rendering Index (CRI)	≥80
LED Chip Manufacturer	Lumileds
MacAdam	3
Life -A	50,000 L90B10 @ 5 years
Life -B	100,000 L90B10 @ 10 years
Warranty	5 Years / 10 Years

### BATTERY

Location	Built in to Luminaire
Technology	Lithium technology
Capacity (Ah)	10
Nominal voltage	3.2 V
Lifespan	3000 cycle (5 to 8 Years)
Warranty	5 Years

### SOLAR MODULE

Tech/Brand	Monocrystalline silicon
Power (W)	20
Voltage	18V
Lifespan	≥ 20 years
Warranty	10 Years

### POLE

Pole Body	Aluminum
Pole Hight	800mm/1000mm /Custom
Lighting up per day	12 hours
Rainy day	3 Days
IP Rating	IP65
IK Rating	IK 08
Operating temperature	from -20° up to +60
Maximum air humidity	95%
Warranty	5 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**

