

## Semi - Integrated solar LED Street Lights

Product name	SSPL-INTSL-12W	SSPL-INTSL-15W
LED lamp	12 watts	15 watts
LED chip	OSRAM OSRON	OSRAM OSRON
Solar PV module	40wp Poly-crystalline	50wp Poly-crystalline
Solar panel MPP voltage	19 volts	19 volts
Battery type and capacity	120WH LiFePO4 Battery Pack	154WH LiFePO4 Battery Pack
Motion sensor	Passive Infrared Sensor - 12 meters working range, Detection: 102 degrees horizontal 92 degree vertical	Passive Infrared Sensor - 12 meters working range, Detection: 102 degrees horizontal 92 degree vertical
Lumen output	140/watt Lumen	140/watt Lumen
Secondary optics	Yes	Yes
LED driver efficiency	> 92 %	> 92 %
LED driver methodology	Dual PWM dc-dc buck converter	Dual PWM dc-dc buck converter
Charge controller Methodology	Three stage battery charge monitoring Algorithm	Three stage battery charge monitoring Algorithm
Ideal current Consumption	Less than 5 ma	Less than 5 ma
PWM frequency	LED driver: 30.53 KHz Charge controller: 25 Hz	LED driver: 30.53 KHz Charge controller: 25 Hz
Light mounting height	5 meter above ground level	5 meter above ground level
Color temperature	6000K - 6500K	6000K - 6500K
Humidity range	0 to 95%	0 to 95%
Temperature range	0°C to 60°C	0°C to 60°C
Dimensions(mm)	410x150x145	410x150x145
Weight(Kg)	2.9Kg	3.1 Kg
Product warranty	5 years	5 years

## Semi - Integrated solar LED Street Lights

Product name	SSPL-INTSL-18W	SSPL-INTSL-24W
LED lamp	18 watts	24 watts
LED chip	OSRAM OSRON	OSRAM OSRON
Solar PV module	60wp Poly-crystalline	75 wp Poly-crystalline
Solar panel MPP voltage	19 volts	19 volts
Battery type and capacity	192WH LiFePO4 Battery Pack	231WH LiFePO4 Battery Pack
Motion sensor	Passive Infrared Sensor - 12 meters working range, Detection: 102 degrees horizontal 92 degree vertical	Passive Infrared Sensor - 12 meters working range, Detection: 102 degrees horizontal 92 degree vertical
Lumen output	140/watt Lumen	140/watt Lumen
Secondary optics	Yes	Yes
LED driver efficiency	> 92 %	> 92 %
LED driver methodology	Dual PWM dc-dc buck converter	Dual PWM dc-dc buck converter
Charge controller Methodology	Three stage battery charge monitoring Algorithm	Three stage battery charge monitoring Algorithm
Ideal current Consumption	Less than 5 ma	Less than 5 ma
PWM frequency	LED driver: 30.53 KHz Charge controller: 25 Hz	LED driver: 30.53 KHz Charge controller: 25 Hz
Light-mounting height	5 meter above ground level	5 meter above ground level
Color temperature	6000K - 6500K	6000K - 6500K
Humidity range	0 to 95%	0 to 95%
Temperature range	0°C to 60°C	0°C to 60°C
Dimensions(mm)	410x150x145	410x150x145
Weight(Kg)	3.6 Kg	3.9 Kg
Product warranty	5 years	5 years

## Semi - Integrated solar LED Street Lights

Product name	SSPL-INTSL-30W	SSPL-INTSL-36W
LED lamp	30 watts	36 watts
LED chip	OSRAM OSRON	OSRAM OSRON
Solar PV module	100wp Poly-crystalline	120wp Poly-crystalline
Solar panel MPP voltage	19 volts	19 volts
Battery type and capacity	308WH LiFePO4 Battery Pack	385WH LiFePO4 Battery Pack
Motion sensor	Passive Infrared Sensor - 12 meters working range, Detection: 102 degrees horizontal 92 degree vertical	Passive Infrared Sensor - 12 meters working range, Detection: 102 degrees horizontal 92 degree vertical
Lumen output	140/watt Lumen	140/watt Lumen
Secondary optics	Yes	Yes
LED driver efficiency	> 92 %	> 92 %
LED driver methodology	Dual PWM dc-dc buck converter	Dual PWM dc-dc buck converter
Charge controller Methodology	Three stage battery charge monitoring Algorithm	Three stage battery charge monitoring Algorithm
Ideal current Consumption	Less than 5 ma	Less than 5 ma
PWM frequency	LED driver: 30.53 KHz Charge controller: 25 Hz	LED driver: 30.53 KHz Charge controller: 25 Hz
Light mounting height	5 meter above ground level	5 meter above ground level
Color temperature	6000K - 6500K	6000K - 6500K
Humidity range	0 to 95%	0 to 95%
Temperature range	0°C to 60°C	0°C to 60°C
Dimensions(mm)	410x150x145	410x150x145
Weight (Kg)	4.5 Kg	4.8 Kg
Product warranty	5 years	5 years

## Semi - Integrated solar LED Street Lights

Product name	SSPL-INTSL-40W
LED lamp	40 watts
LED chip	OSRAM OSLON
Solar PV module	150wp Poly-crystalline
Solar panel MPP voltage	19 volts
Battery type and capacity	461WH LiFePO4 Battery Pack
Motion sensor	Passive Infrared Sensor - 12 meters working range, Detection: 102 degrees horizontal 92 degree vertical
Lumen output	140/watt Lumen
Secondary optics	Yes
LED driver efficiency	> 92 %
LED driver methodology	Dual PWM dc-dc buck converter
Charge controller Methodology	Three stage battery charge monitoring Algorithm
Ideal current Consumption	Less than 5 ma
PWM frequency	LED driver: 30.53 KHz Charge controller: 25 Hz
Light mounting height	5 meter above ground level
Color temperature	6000K - 6500K
Humidity range	0 to 95%
Temperature range	0°C to 60°C
Dimensions(mm)	410x150x145
Weight (Kg)	5.2 Kg
Product warranty	5 years