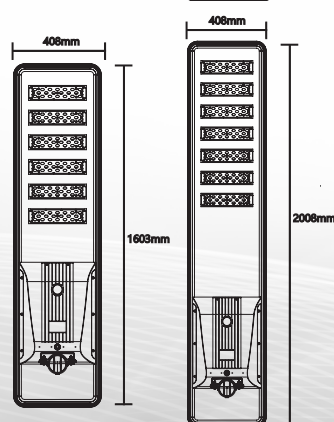
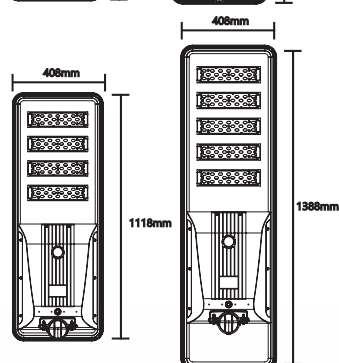
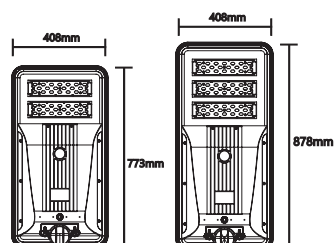




Integron^{Butterfly}

SOLAR LED STREET LIGHT





Technical Specifications

Electrical Characteristics

Wattage Package	40W – 60W	60W – 80W	80W – 100W	100W – 120W
Charge Controller	Intelligent Solar Charge Controller			
Charge Controller TYPE	MPPT			
Voltage Range	Light 36V / 48V Battery 12V / 24V and PV 17-48V / 34-48V			

Light Technical Characteristics

Lumen Package	>6,000 Lm	>9,000 Lm	>12,000 Lm	>15,000 Lm
	Other lumen packages also available ranging from 4,550 Lm to 42390Lm			
System Efficacy	140-150 Lm/W			
Light Source	Lumileds 3030 2D / TYF 3030			
LED Efficiency	Upto 200 Lm/w			
LED Drive Current	Less than 50% of the rated max forward current of the LED			
Color Rendering Index	Minimum 70			
Beam Angle	Standard Beam Angle 90x150 Degree Type II M (other Type(s) also available)			
Color Temperature	CW -5700K/ NW -4000K/ W W -3000K ±500K			
Lifetime	50,000 hours (70% lumen maintenance @ Ta = 35°C)			

Battery Technical Characteristics

Battery Capacity	>230 Wh	>320Wh	>576 Wh	>768 Wh
Battery Type	Lithium Iron Phosphate (LiFePO4)			
Charge Cycles / Life	>4000 Charge Cycles (up to 5000) / Upto 13 Years			

Solar Technical Characteristics

Solar PV Wattage	>50W	>60W	>80W	>105W
Solar PV Type	Monocrystalline / Mono PERC			
Solar PV Life	> 10 years			

Environmental Characteristics

Light Installation	*48-60mm pole, side entry	
Light Mounting Height	Up to 6-8m	Up to 8-12m
Working temperature	Light -40°C to 55°C Battery 0° C to 45°C Solar Panel -40°C to 85°C	
Relative humidity	Up to 95%RH	

Mechanical Parameters

Light Housing material	High pressure die-cast aluminum
Buttery Console material	Aluminum Alloy
Gasket material	Heat resistant silicone rubber
Light Front Cover	Tempered Glass
Finishing	Corrosion resistant powder coating

General Information

System Life	Upto 100,000 working hours
Applications	Expressways, Highways, Major Roads, Secondary Roads, Industrial Roads & Residential Roads.

Unique Features

Future Proof Design	Upgradable to solar or any other future technology
Programmability	The light can be programmed to work on multiple dimming stages to save energy in off-peak hours for an extra-long battery backup
IOT	Provision of IOT connectivity (optional)