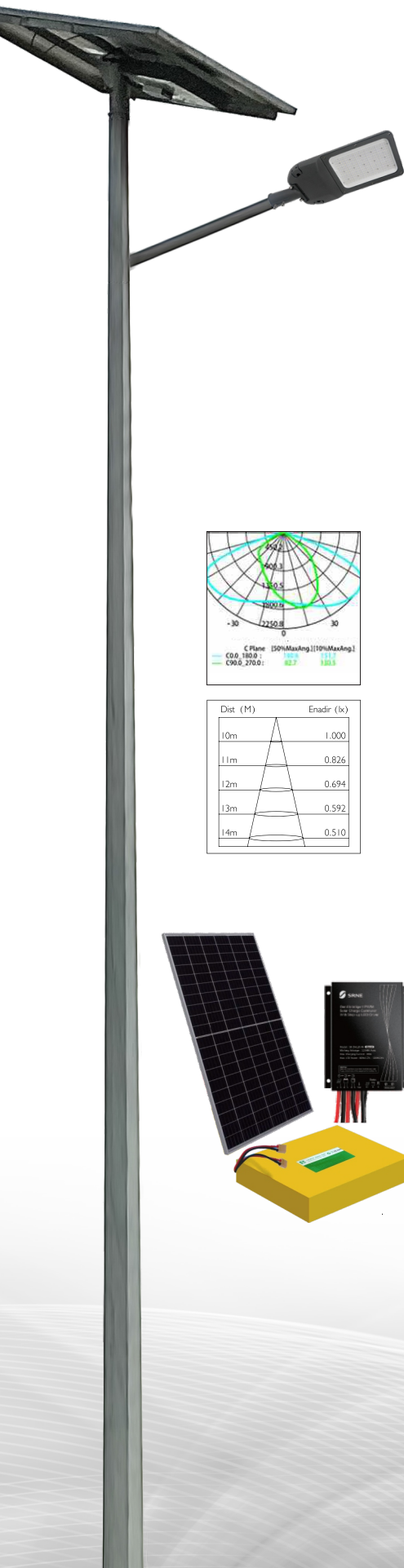




# Integron<sup>Butterfly</sup>

SOLAR LED STREET LIGHT





Dist. (M)	Enadir (lx)
1.0m	1.000
1.1m	0.826
1.2m	0.694
1.3m	0.592
1.4m	0.510



## Technical Specifications

Electrical Characteristics				
Wattage Package	60W – 80W	80W – 100W	100W – 120W	120W – 150W
Charge Controller	Intelligent Solar Charge Controller			
Charge Controller TYPE	PWM / MPPT / PWM Hybrid / MPPT Hybrid			
Voltage Range	Light 36V / 48V Battery 12V / 24V and PV 17-48V / 34-48V			
Light Technical Characteristics				
Lumen Package	>8,600 Lm	>12,200 Lm	>16,800 Lm	>19,600 Lm
	<i>Other lumen packages also available ranging from 4,550 Lm to 42390Lm</i>			
System Efficacy	<b>140-150 Lm/W</b>			
Light Source	<b>Lumileds 3030 2D</b>			
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 <i>(other Type(s) also available)</i>			
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	>576 Wh	>768 Wh	>1075 Wh	>1228 Wh
Battery Type	Lithium Iron Phosphate (LiFePO4)			
Charge Cycles / Life	>4000 Charge Cycles <i>(up to 5000)</i> / Upto 13 Years			
Solar Technical Characteristics				
Solar PV Wattage	>150W	>200W	>250W	>300W
Solar PV Type	Polycrystalline / Monocrystalline / Mono PERC (as per client requirement)			
Solar PV Life	> 10 years			
Environmental Characteristics				
Light Installation	*48-60mm pole, side entry			
Light Mounting Height	Up to 6-10m		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 Programmability IOT	Upgradable to solar or any other future technology <b>The light can be programmed to work on multiple dimming stages to save energy in off-peak hours for an extra-long battery backup</b> Provision of IOT connectivity (optional)			