



Features

A highly efficient, all-in-one street light with intelligent dimming dusk-to-dawn. Available in hybrid(mains+solar) or pure solar configurations for remote locations and residential areas aiming for carbon neutrality.

In a hybrid configuration, when the battery storage is insufficient(lower than 9.6V), the luminaire will automatically switch to mains power supply. When the solar power supply restores the voltage, the system will automatically cut off the mains power .

The Controller recognises day and night based on the Solar Array Open Circuit Voltage. This day/night threshold can be modified according to local light conditions and the solar array used, setting range 3.0 ~8.0V

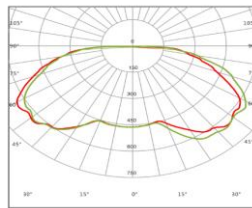
Electrical Information			
Item No.	RSSL-A-10W	RSSL-A-20W	RSSL-A-30W
Power Consumption(±3W)	10W	20W	30W
Power Supply	Inventronics Constant Current(CC)		
Input Voltage	220-240Vac, 50 / 60 Hz		
Power Factor(PF)	>0.5		<0.9
Surge Protection	6kV line-earth,4kV line-line		
Battery	LiFePo4		
Battery Capacity	76.8Wh-6Ah	153.6Wh-12Ah	230.4Wh-18Ah
Solar Panel	Monocrystalline		
Solar panel wattage	30W		
Charging Time	>3H	>6H	>9H
Operating Time	8 Hours or 3-4 Days when in Sensor Mode		
Solar Charge Controller	PWM		
Control	PIR/4-step Timed Dimming		

Optical Information			
LED Type/Size	SMD 2835		
Luminous Flux(±10%)	1300lm	2600lm	3900lm
Efficacy(4000K, Ra70)	130lm/W		
Correlated Colour Temperature	4000K(3000K and 5000K Optional)		
Colour Rendering Index	Ra70 (Ra80 Optional)		
Beam Angle	R00C49		

Packaging and Mounting Options			
Product Size	φ575x151mm		
Net Weight	7.1±0.3kg	7.7±0.3kg	8.3±0.3kg
Carton Size	650x650x215mm		
Gross weight	9±0.3kg	9.6±0.3kg	10.3±0.3kg
Mounting Options	Post Top		
Construction	Aluminium Alloy Polycarbonate Optical Lens		
Finish	Powder Coating		
Fixture Colour	Silver		
EPA	2.368ft²/0.22m²		
Ingress Protection(IP)	IP65		

Lifespan and Warranty	
Operating temperature	-20°C to +50°C
Lifetime of LED Chip @Ta=25°C	L90 31000Hrs L80 64000Hrs L70 101000Hrs
Warranty	5 Years

Photometry



R00C49

Dimensions(Post Top Mounting)

