



Product Specification

Description	36W Newlite Semi Integrated - Solar Street Light				
Input/Output Product Ratings for each individual Lamp					
Parameter	Conditions	Specification			Units
		Min	Nom	Max	
Operating Voltage Range		11.1	12.8	14.4	VDC
Battery Characteristics					
Parameter	Conditions	Specification			Units
		Min	Nom	Max	
Battery type	---	LiFePo4			---
Voltage		10.2	12.8	14.6	VDC
Current Capacity			48		Ah
LED Package Characteristics					
Parameter	Conditions	Specification			Units
		Min	Nom	Max	
LED Manufacturer	---	OSRAM			---
LED Product Code / Catalogue ref.	---	5W-5050(130lumens/watt)			---
No. of LEDs	---	24			---
CCT / Colour Code	---	5500	5700	6500	°K
CRI	---	>70			---
Driver Characteristics					
Parameter	Conditions	Specification			Units
		Min	Nom	Max	
Input Current	12.8VDC, 25±2°C	3750	2812	4062	mA
Input Power	12.8VDC, 25±2°C	34.20	36	37.80	W
Output Current	12.8VDC, 25±2°C	1788	1882	1965	mA
Output Voltage	12.8VDC, 25±2°C	17.3	17.4	17.5	V
Output Power	12.8VDC, 25±2°C	31.12	32.76	34.40	W
No Load Current	12.8VDC, 25±2°C		<20		mA
Efficiency range	12.8VDC, 25±2°C		>90%		---
Dawn Detect Voltage & Dusk Detect Voltage	Nominal and +/- variations	Provided			
Low Voltage cut off	Nominal and +/- variations	11	11.1	11.2	VDC
Load Reconnect	Nominal and +/- variations	12.3	12.5	12.6	VDC
Over Charge Cut Off	Nominal and +/- variations	14.2	14.4	14.5	VDC
Dimmability	Dimmable / Non Dimmable	Dimmable			
Charge Controller Type	PWM / MPPT	MPPT			
Motion Sensor	Provided/Not Provided	Yes			
Duty Cycle		2min Full Bright at 100% at starting rest 33% power and full brightness on detection on motion with PIR (motion sensor)			
Indications	LVD	Red LED Blink			---
	CHG	Green LED Blink			---
	HVD	Green LED Glow			---
Protection	Battery deep discharge, Battery Overcharge, Load open, Overload, short circuit, Dusk to Dawn, Reverse battery, Panel reverse connection, No flow of current through battery to panel, temperature compensation.				
NewLite Drawing	Parameter	Specification			Units
	Length L(±5)mm	425.0			MM
	Width W(±5)mm	210.0			MM
	Height H(±2)mm	100.0			MM
	Housing Material	Aluminium			
MODEL - Newlite					

