

Solar Lighting Towers

SYSTEM SPECS

System Lighting Load (LED qty)	W	800 (4 x 150)
Solar Capacity (PV qty)	Wp	1800 (4 x 450)
Total Luminous Flux (lumen)	lm	96000 (4 x 24000)
Voltage	Vdc	48
Battery Capacity (@C20) / Qty	Ah	200 x 4
Max. Charge Current	A	40
Charging Voltage	Vdc	57.6
Auxiliary Charge Input Voltage	Vac	120
Auxiliary Charge Current	A	17.4
Auxiliary Charge Power	W	1000
AC Output Voltage	Vac	120
AC Output Frequency	Hz	60
AC Output Power	VA	1200
Tilt Angle	deg	30°
Tower Height	m / ft	6 / 19' 8"



LED (Lm)

4x24,000

MAST HEIGHT (m)

MECHANICAL
6

PERFORMANCE PARAMETERS

Battery Discharge Time	hr	12
Cycle per Day / Year		1.52 / 555
Expected Battery Life Time	Years	5
Illuminated Area (w/ Average 20 lux)	m ²	3500

STANDARD SPECS

Automatic Manual Control	Available
Automatic Control Method	Photo Relay
Log Recording	Available
DoD Discharge Protection	Available
Tower Light Control	Manual
Tower Position Control (east-west)	Manual
Projector Position Control	Manual

BATTERY SPECS

Technology	Lead Carbon
Capacity (@C20)	200 Ah
Nominal Voltage	12V
Depth of Discharge (DoD)	80%
Cycle Life (@25°C & %80 DoD)	2000
Design Life	15 years
Internal Resistance (mOhm)	4
Terminal Type	F12 (MB) / F5 (MB)
Maximum Charge Current	80 A
Maximum Discharge Current (5 sec)	200 A
Operating Temperature Ranges	Charge: 0°C - 50°C Storage: -20°C - 60°C
Maintenance	Free



SOLAR CHARGER (MPPT) SPECIFICATIONS

Nominal Output Voltage	48 VDC
Maximum PV Open Circuit Voltage	150 VDC
Maximum PV Short Circuit Current	40A
Nominal Charge Current	35A
Charging Voltage "Absorption"	57.6 VDC (adjustable)
Charging Voltage "Float"	55.2 VDC (adjustable)
Nominal PV Power	2000 W
Maximum Efficiency	98%
Operating Temperature Ranges	-30°C - 60°C



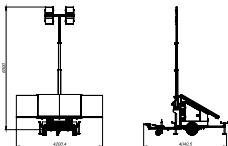
Transportation Mode Dimensions-mm

AUXILIARY CHARGER SPECIFICATIONS

Nominal Output Voltage	48 VDC
Input Voltage Range	90 - 264 VAC
Frequency Range	47 - 63 Hz
Power Factor	0.98 (@115 VAC)
Input Current	12A (@115 VAC)
Nominal Charging Current	17.4 A
Charging Voltage "Absorption"	57.6 VDC (adjustable)
Charging Voltage "Float"	55.2 VDC (adjustable)
Efficiency	93%
Operating Temperature Ranges	-20°C - 60°C

SIZE

	W x L x H (mm)	Weight (kg)	W x L x H (in)	Weight (lbs)
Transportation Mode Dim.	2180 x 3680 x 2930	1450	85.8 x 144.9 x 115.4	3200
Running Mode Dim.	4200 x 4000 x 6000	1450	165.4 x 157.5 x 236.2	3200



Running Mode Dimensions-mm