

### General Specifications

Automatic – Manual Control		Standard
Automatic Control Method		Daylight Sensor
Deep Discharge Protection		Standard
Tower Height Control		Manual
Tower Position Control (east – west)		Manual
LED Position Control		Manual
Log Recording		Optional
Remote Monitoring		Optional
Inverter		Optional



LED (Lm)  
4x24.000

MAST HEIGHT (m)  
MECHANICAL  
6

### System Specifications

System Lighting Load (LED qty)	W	600 (4 x 150)
Solar Capacity (PV qty)	Wp	1800 (4 x 450)
Total Luminous Flux	lm	96000 (4 x 24000)
System Voltage	VDC	48
Battery Capacity (@C20)	Ah	200
Nominal Charge Current	A	40
Nominal Charge Voltage	VDC	57,6
Auxiliary Charge Voltage	VAC	230
Auxiliary Charge Current	A	17,4
Auxiliary Charge Power	W	1000
AC Output Voltage (OPTIONAL)	VAC	230
AC Output Frequency (OPTIONAL)	Hz	50
AC Output Power (OPTIONAL)	VA	up to 3000
Tilt Angle	degree	30
Tower Height	m	6

### Battery Specifications

Battery Technology		Lead Carbon
Capacity	Ah	200
Nominal Voltage	VDC	12
Depth of Discharge (DOD)	%	80
Cycle Life (@25°C & %80 DoD)		2000
Design Life	years	15
Recommended Charge Current	A	40
Maximum Discharge Current	A	2000
Operating Temperature Ranges		Discharge: -20°C~55°C
		Charge: 0°C~50°C
		Storage: -20°C~60°C
Maintenance		Free



**Solar Charger Specifications**

Nominal Output Voltage	VDC	48
Maximum PV Open Circuit Voltage	VDC	150
Maximum PV Short Circuit Current	A	40
Nominal Charge Current	A	35
Charge Voltage "absorption"	VDC	57,6 (adjustable)
Charge Voltage "float"	VDC	55,2 (adjustable)
Nominal PV Power	W	2000
Maximum Efficiency	%	98
Operating Temperature Rates		-30°C ~ 60°C

**Auxiliary Charger Specifications**

Nominal Output Voltage	VDC	48
Input Voltage Range	VAC	90~264
Frequency Range	Hz	47~63
Nominal Charge Current	A	17,4
Charge Voltage "absorption"	VDC	57,6 (adjustable)
Charge Voltage "float"	VDC	55,2 (adjustable)
Maximum Efficiency	%	98
Operating Temperature Rates		-20°C ~ 60°C

**Performance Parameters**

Battery Discharge Time	hours	12
Cycle Per Day	qty	1/1,5
Expected Battery Lifetime (with 1,5 daily battery cycle @ %80 DoD & 25°C ambient)	years	3,7
Illuminated Area (Average 20 lux)	m <sup>2</sup>	3500

**Size**

	W x L x H (mm)	Weight (kg)
Transportation Mode	2180 x 3679 x 2930	1492 kg
Operation Mode	4201 x 4041 x 6000	1492 kg

