

Mechanical

Battery Construction: Polycarbonate
 Battery Top Construction: Polycarbonate with Black Rubber Overmold
 Cells: Lithium-Ion
 Battery Posts: Nickel Plated Brass

Electrical

Maximum Voltage: 4.2 VDC
 Nominal Voltage: 3.6 VDC
 Minimum Voltage: 3.0 VDC
 Capacity (nominal): 14.4 Amp-Hours
 Maximum Inrush Current (inductive): 6 Amps
 Maximum Steady State Current (resistive): 4.2 Amps

Operational / Environmental

Max Run Time with 1 Amp Load:

Temperature	Typical	Max
21° C / 70 ° F	15 Hours	17 Hours
10° C / 50 ° F	15 Hours	17 Hours



Absolute Minimum/Maximum Operating Conditions		
	T _{min}	T _{max}
Charge	0 °C (32 °F)	40 °C (104 °F)
Discharge	-20 °C (-4 °F)	60 °C (140 °F)

Charging

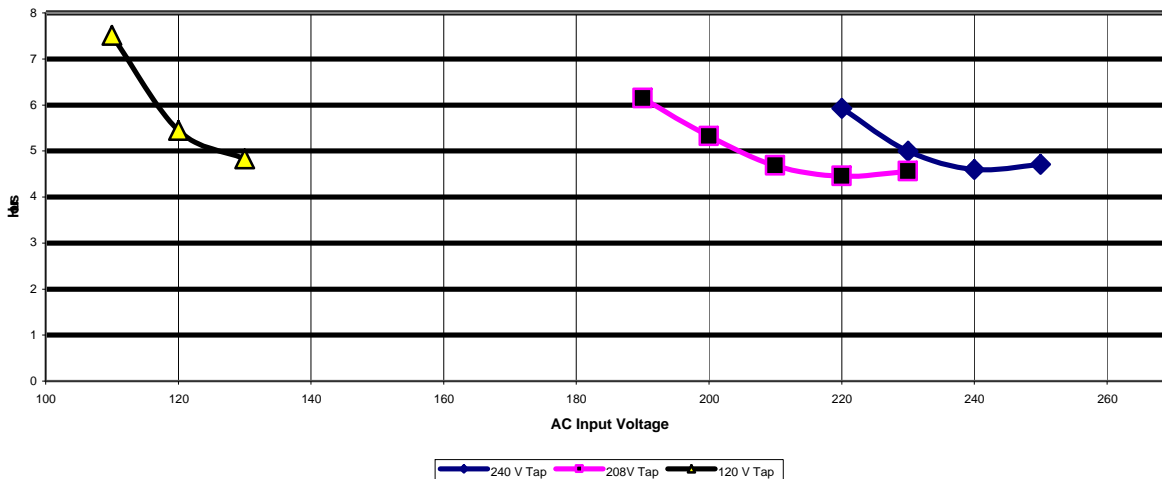
Modular Charger AC Voltage Input 60Hz:

	120V Tap	208V Tap	240V Tap
Minimum	115 VAC	190 VAC	220 VAC
Nominal	123 VAC	208 VAC	240 VAC
Maximum	140 VAC	230 VAC	260 VAC

Maximum Vibration Per MSHA CFR 30
 ASTP 2223:
 1/16" P-P Amplitude, 30 Hz, 1 Hour
 1/8" P-P Amplitude, 15 Hz, 1 Hour

DC Input:
 Minimum: 6VDC
 Maximum: 10 VDC

Charge Time After 12 Hour Discharge



Light Output @ 1.2 Meters

Caplamp	Fully Charged	After 8 Hour Continuous Discharge
LI-5100-G (Mark II)	5186 Lux	3660 Lux
LI-5200-G (Mark V)	3843 Lux	2760 Lux
LI-5300-G (LED)	3550 Lux	3550 Lux

LI-5100-G (Mark II)

Specifications

Bulb/Lamp: (Xenon, w 2 filaments)

Type	Volts	Current	Watts
BM-30G	4.0	1.0A	4.0
BM-30M	4.0	.75A	3.0

Bulb/Lamp Life: 400 Hours (Two Filaments)

Light Output: 20,000 Beam Candepower

Light output: 40 Lumens

Runtime w/Tracker: 16 Hrs

Unit Dimensions (cord)

Length: 52 in. (132.1 cm)

LI-5200-G (Mark V)

Specifications

Bulb/Lamp: (Xenon, w 2 filaments)

Type	Volts	Current	Watts
BM-30G	4.0	1.0A	4.0
BM-30M	4.0	.75A	3.0

Bulb/Lamp Life: 400 Hours (Two Filaments)

Light Output: 20,000 Beam Candepower

Light output: 40 Lumens

Runtime w/Tracker: 16 Hrs

Unit Dimensions (cord)

Length: 52 in. (132.1 cm)

LI-5300-G (LED)

Specifications

Bulb/Lamp: (HB LED, w backup LED)

Type	Volts	Current	Watts
LED	4.0	0.550A	2.0

Bulb/Lamp Life: 10000 Hours

Light output: 110 Lumens (calculated @ $T_j = 25^\circ\text{C}$)

Runtime: 28Hrs max

w/Tracker: 27Hrs

PTO runtime w/LED: 11Hrs

w/11Hrs of PTO operation: 26 Hrs (see graph)

Unit Dimensions (cord)

Length: 52 in. (132.1 cm)

Components

Cable: Thermal Plastic Rubber (TPR)

Headpiece: Molded Polycarbonate

Lens: Heat tempered glass

Reflector: High Purity Aluminum

Bezel: Polycarbonate (Red)

Unit Dimensions (headpiece)

Depth: 3.0 in. (7.6 cm)

Diameter: 3.1 in. (8.0 cm)

Components

Cable: Thermal Plastic Rubber (TPR)

Headpiece: Molded Polycarbonate

Lens: Heat tempered glass

Reflector: High Purity Aluminum

Bezel: Polycarbonate (Transparent Red)

Unit Dimensions (headpiece)

Depth: 2.8 in (7.0 cm)

Diameter: 2.9 in(7.6 cm)

Components

Cable: Thermal Plastic Rubber (TPR)

Headpiece: Molded Polycarbonate

Lens: Heat tempered glass

Reflector: High Purity Aluminum

Bezel: Polycarbonate (Red)

Unit Dimensions (headpiece)

Depth: 2.6 in (6.6 cm)

Diameter: 2.2 in (5.5 cm)

The graph below shows the comparison of the 5300 LED cap lamp to a Mark V cap lamp both running a PTO at a maximum current of 300mA. The PTO shuts off at 3.5V, allowing the cap lamps to continue to run.

LED vs BM30G runtime w/PTO

