

SOLAR

SOLAR PHOTOVOLTAIC BATTERIES
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East Penn
CANADA

SOLAR PHOTOVOLTAIC BATTERIES

RELIABLE, LOW-MAINTENANCE POWER

Higher voltage systems naturally have greater power requirements. The **EAST PENN SOLAR FLOODED SYSTEM** is designed to offer reliable, low maintenance power for renewable energy applications where frequent deep cycles are required and minimum maintenance is desirable.

FEATURES & BENEFITS

- ▶ Jar and Cover...
- ▶ Separators...
- ▶ Retainers...
- ▶ Positive and Negative Plate...
- ▶ Specific Gravity (fully charged)...
- ▶ Self discharge...
- ▶ Cycle life...
- ▶ Molded high impact polypropylene
- ▶ Microporous polyethylene material
- ▶ Vertically and horizontally wrapped glass mat, folded perforated envelope, molded plastic bottom shield
- ▶ Antimony flat plate
- ▶ 1.280 @ 25°C (77°F)
- ▶ 1% per week
- ▶ 1500 cycles @ 80% DOD, 4000 cycles @ 20% DOD [Number of cycles based on 6-hr. rate @ 25°C (77°F)]



INNOVATIVE FEATURES

- ▶ High capacity flat plate cells
- ▶ Long life: 12 to 14 years in shallow cycle service
- ▶ Thermally sealed cover to container
- ▶ Long-lasting epoxy coated steel trays
- ▶ Special mounting brackets on tray for enhanced stability
- ▶ Custom design modules
- ▶ Equipped with East Penn's E-Z LINK Connectors

OPTIONS AVAILABLE

- ▶ Single point watering system
- ▶ Design variations based on specific application needs

EAST PENN PREMIUM FLOODED BATTERIES

EAST PENN CANADA

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PREMIUM FLOODED BATTERIES

Model	Voltage	Dimensions inches (mm)			Weight lbs (kgs)	A/H @ 20Hr rate to 1.75 vpc	Flooded System Discharge Ratings Cut-Off Voltage at 1.70 VPC			
		Length	Width	Height			6 Hr.	20 Hr.	72 Hr.	100 Hr.
3-D85-13 EZ SOLAR	6	18.82 (478)	5.25 (133)	22 (559)	267 (121)	628	510	628	722	754
3-D85-15 EZ SOLAR	6	19 (482)	6 (153)	22 (559)	360 (164)	732	595	732	842	878
3-D85-17 EZ SOLAR	6	19 (482)	7 (178)	22 (559)	345 (157)	836	680	836	962	1003
3-D85-21 EZ SOLAR	6	19 (482)	8.25 (210)	22 (559)	426 (194)	1045	850	1045	1202	1254
3-D85-25 EZ SOLAR	6	19 (482)	10 (254)	22 (559)	504 (229)	1255	1020	1255	1443	1506
IIC 1071 Interblock connectors	10 3/4" Connector - 1 required to interconnect 13 and 15 plate size batteries 10 3/4" Connector - 2 required to interconnect 17, 21 and 25 plate size batteries									
take off cables	2 x 2/0 - 5' take off cables with terminal protectors for plate sizes 15 and under 2 x 4/0 - 5' take off cables with terminal protectors for plate sizes 17 and up									

6 Volt

Charge Voltage

- ▶ Cycle 2.40 to 2.45
- ▶ Float 2.30 to 2.35 per cell
- ▶ Equalize 2.50 to 2.55 per cell

SOLAR EZ LINK
E-Z LINK FLOODED BATTERIES
E-Z LINK FLOODED BATTERIES

SYSTEM STANDARD ON ALL BATTERIES

SIGNIFICANTLY REDUCES BATTERY REPAIR COSTS AND DOWNTIME.

Now Battery Repair is as Easy and Safe as:

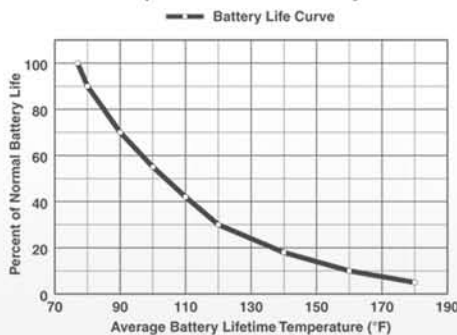
- 1 Disconnect E-Z LINK cell using wrench.
- 2 Remove cell.
- 3 Insert new cell.
- 4 Reconnect E-Z LINK cell

PLUS...

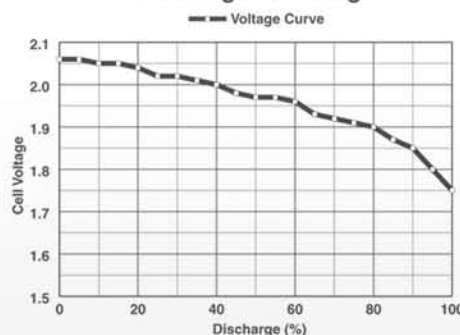
- ▶ Terminal cable replacement is quick and easy.



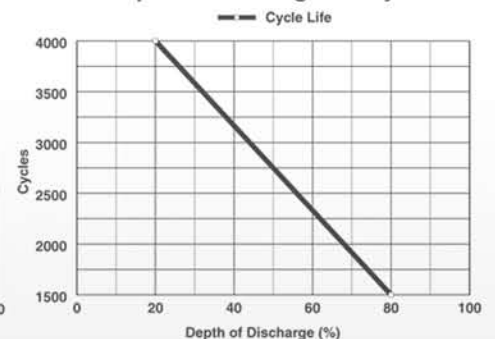
Temperature vs. Battery Life



Discharge vs. Voltage



Depth of Discharge vs. Cycles



Warranty: 10 year total warranty (3 years free + 7 years pro-rated)