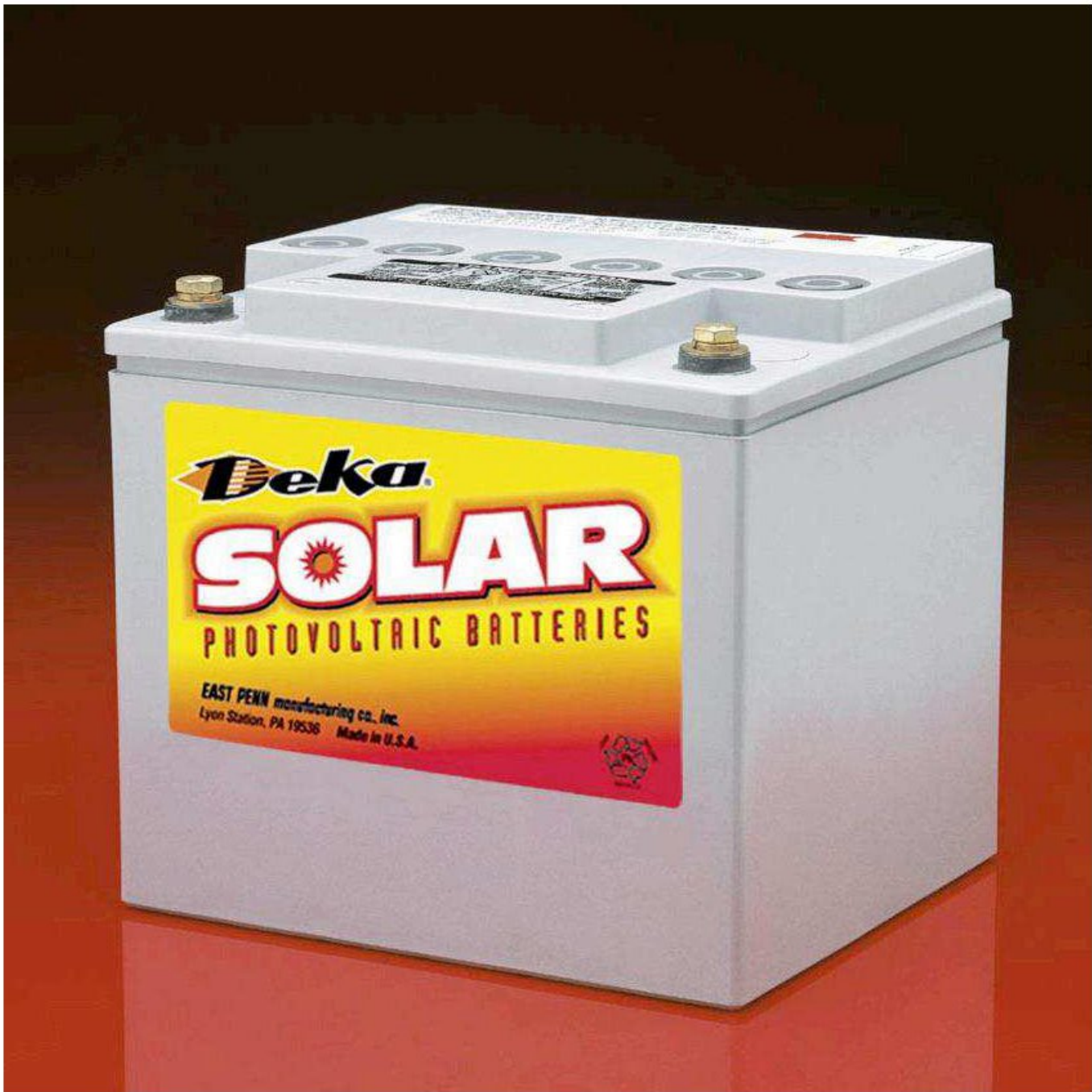
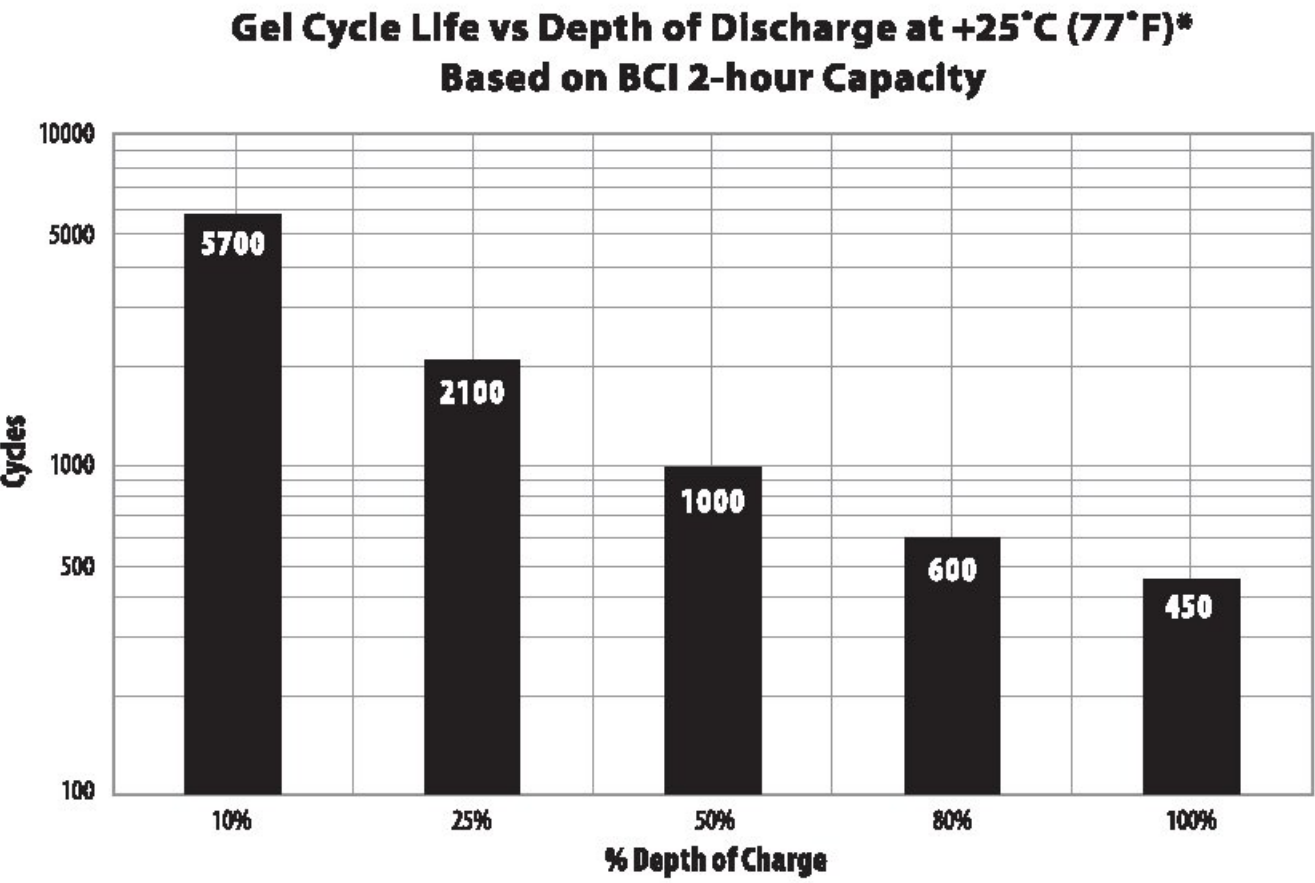


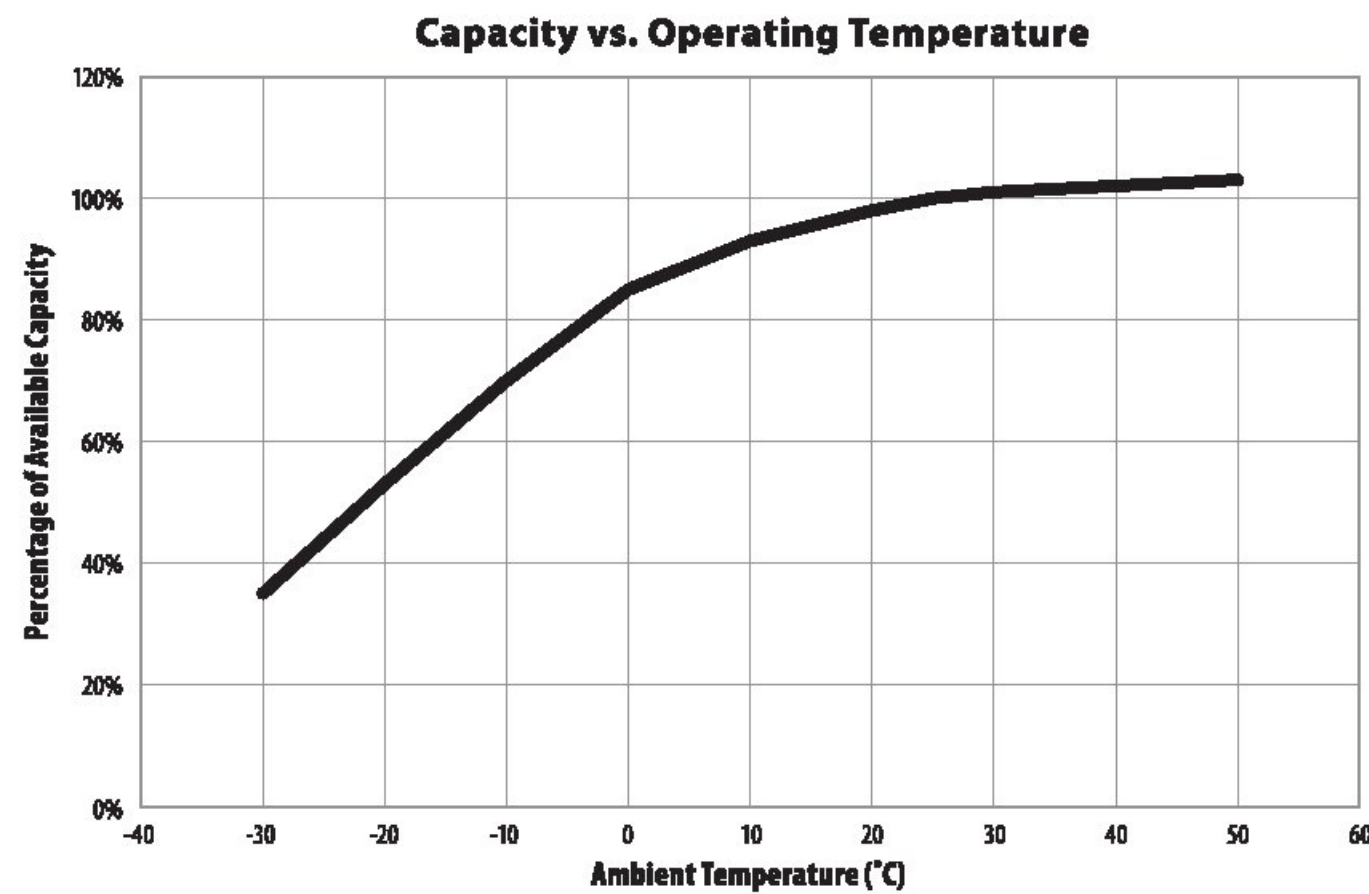
8G40-DEKA 48Ah Valve-Regulated Gelled-Electrolyte Battery



Voltage	12 volts nominal		
Capacity at C/100	48 Ah		
Capacity at C/100	40 Ah		
Plate alloy	Lead calcium		
Container/cover	Grey Polypropylene		
Electrolyte	Sulfuric acid thizotropic gel		
Short circuit current	1331		
Posts	Forged terminals and bushings		
Operating temperature range	-76°F (-60°C) – 140°F (60°C)		
Vent	Self sealing		
Terminal	Insert with 1/4"-20 round hole		
Weight	32 lb. (14.5 kg)		
Dimensions	7.76"L x 6.62"W x 6.87"H 197mmL x 168mmW x 174mmH		
Ampere Hour Capacity 77°F (25°C)			
10 HR = 37.0Ah	20 HR = 40.0 Ah	24 HR = 40.8 Ah	100 HR = 48.0 Ah
Peak Rating** [1.75 vpc @ 77°F (25°C)]			
5 HR = 36.0 AH	20 HR = 42.1 AH	100 HR = 48.7 AH	
Non -Spillable	as defined by Department of Transportation, International Commercial Airline Organization and International Airline Transport Association definitions		



*Dependent upon proper charging and ambient temperatures.



Capacity vs. Operating Temperatures: Above are the changes in capacity for wider ambient temperature range, giving the available capacity, as a percentage of the rated capacity, at different ambient temperatures. The curves show the behavior of the battery after a number of cycles.

Photovoltaic Charging Parameters		
Bulk charge	Max current (amps)	30% of 20 Hr rate
Absorption (regulation) charge	Constant Voltage	2.35-2.43 vpc
Float charge	Constant Voltage	2.25 vpc ± 0.01
Equalize charge	Constant Voltage	2.40-2.43 vpc
Temperature coefficient	0.003 v/°C	

Cut-off parameters per charge & equalize intervals are application specific and will vary dependent upon site specific characteristics such as temperature, days of autonomy, array to load ratio, etc.

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