

Fused Iron™ Battery



Maximum Dimensions

	cm	(inches)
Width:	10.8	(4.25)
Length:	15.7	(6.19)
Height:	36.0	(14.17)
Terminal Spacing:	8.3	(3.25)

General Specifications

Battery Type:	Rechargeable, Flooded
Chemical System:	Nickel Iron (NiFe)
Weight:	11.3 kg (24.8 lbs)
Nominal Discharge Voltage	1.2-1.3 Volts (rate dependent)
Nominal Cell Capacity C/10 to 0.9V	330 Ah
Nominal Cell Capacity C/5 TO 0.9V	315 Ah
Terminals:	M8 x 16 mm
Container:	Polypropylene (V0 available)
Vent:	Includes Flame Arrestor
DI Water Top Up Frequency:	Depends on Application (1 week to 1 year)
Autofill System:	Available Separately

System Operation

Recommended Charging	Constant current
Charge Voltage	1.65V - 1.75V
Float Hold Voltage	1.4-1.45V
Optimum Charging Current	C/5 (66 Amps)
Min. Charging Current	C/10 (33 Amps)
Max. Cont. Charging Current	C/4 (83 Amps)
Max. Pulsed Charging Current	C (165 Amps - 1 minute)
Equalization Charge	150% min, 200% max.
Maintenance Charge	Application Dependent
Initiation Charge	150% min, 200% max.
Optimum Discharge Current	C/4 - C/10 (33 - 83 Amps)
Max Discharge Current	C/2 (165 Amps)
Battery Cycle Life @25°C	>11,000 cycles @ 100% DOD
Battery Cycle Life @35°C	>5,700 cycles @ 100% DOD
Battery Life on Float	50 yrs.
Battery Storage Life	85 yrs.

Environment

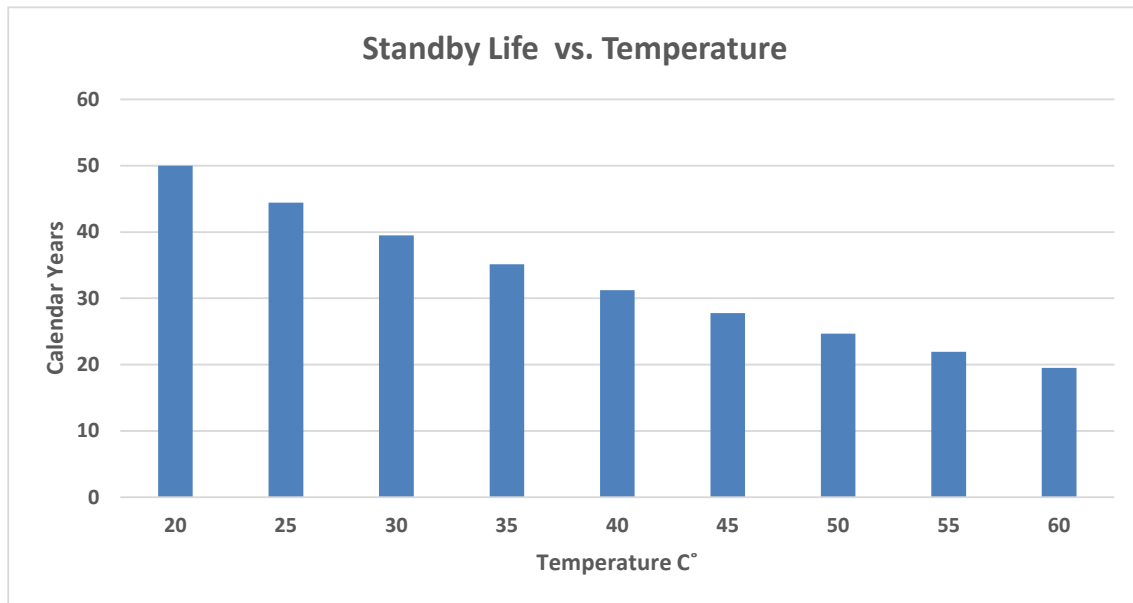
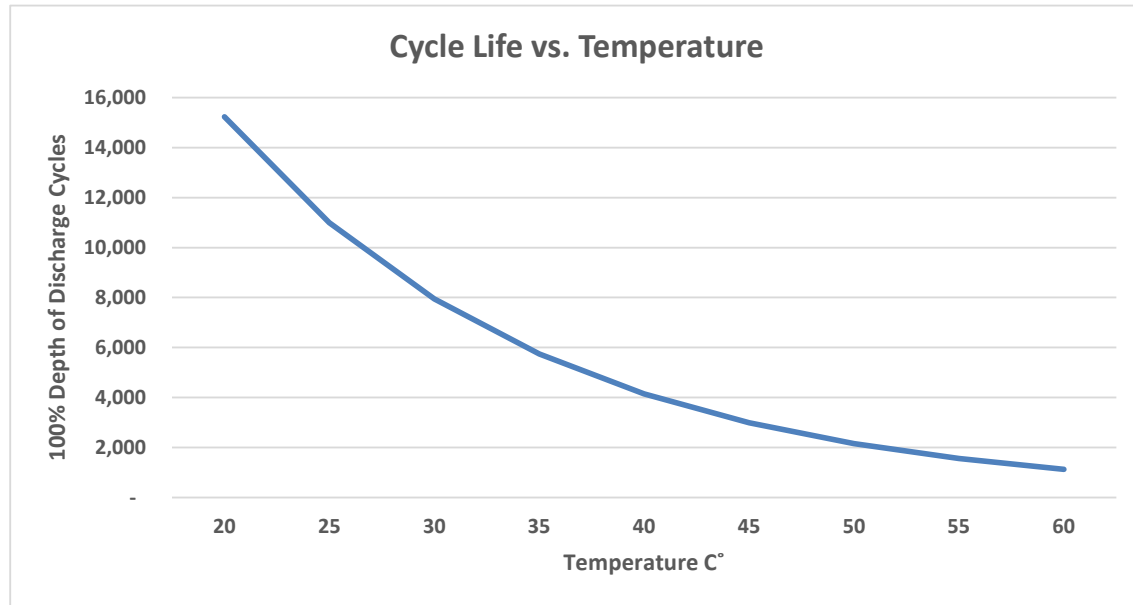
Discharge Temperature (°C):	-30 to +60 (-40 available)
Charge Temperature (°C):	-30 to +60 (-40 available)
Storage Temperature (°C):	-30 to +60 (-40 available)
Operating Humidity:	5% to 95% non-condensing
Temperature Compensation	None
Ah Efficiency (0 to 80% SOC)	98%
Ah Efficiency (80 to 100% SOC)	75%
Solar Compatible:	Yes
Wind Compatible:	Yes
Transportation Classification:	UN2795 Class 8

PEUKERT CELL CAPACITY:

Rate/Amps	C-Rate	Hours	Ah Delivered	% Rated Capacity
17	C/20	20	335	101%
22	C/15	15	333	101%
33	C/10	10	330	100%
41	C/8	8	328	100%
55	C/6	6	327	99%
66	C/5	5	325	99%
83	C/4	4	324	98%
110	C/3	3	322	98%
165	C/2	2	319	97%
330	C	1	315	95%

Important Notice

This datasheet contains typical information specific to products manufactured at the time of its publication.
 ©Encell Technology - Contents herein do not constitute a warranty.



Important Notice

This datasheet contains typical information specific to products manufactured at the time of its publication.

©Encell Technology - Contents herein do not constitute a warranty.