

Fused Iron™ Battery



Maximum Dimensions

	cm	(inches)
Width:	10.8	(4.25)
Length:	6.7	(2.4)
Height:	35.1	(13.8)
Terminal Spacing:	6.4	(2.5)

General Specifications

Battery Type:	Rechargeable, Flooded
Chemical System:	Nickel Iron (NiFe)
Weight:	3.5kg (7.7lbs)
Nominal Discharge Voltage	1.2-1.3 Volts (rate dependent)
Nominal Cell Capacity C/10 to 0.9V	110 Ah
Nominal Cell Capacity C/5 TO 0.9V	105 Ah
Terminals:	M8 x 1.25 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	1.65-1.75V
Float Hold Voltage	1.40-1.45V
Optimum Charging Current	C/4 (28 Amps)
Min. Charging Current	C/50 (2 Amps)
Max. Cont. Charging Current	C/2 (55 Amps)
Max. Pulsed Charging Current	6C (660 Amps)
Equalization Charge	150% min, 200% max.
Maintenance Charge	Application Dependent
Initiation Charge	150% min, 200% max.
Optimum Discharge Current	C/4 - C/10 (11 - 28 Amps)
Max Discharge Current	1C (110 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	20 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

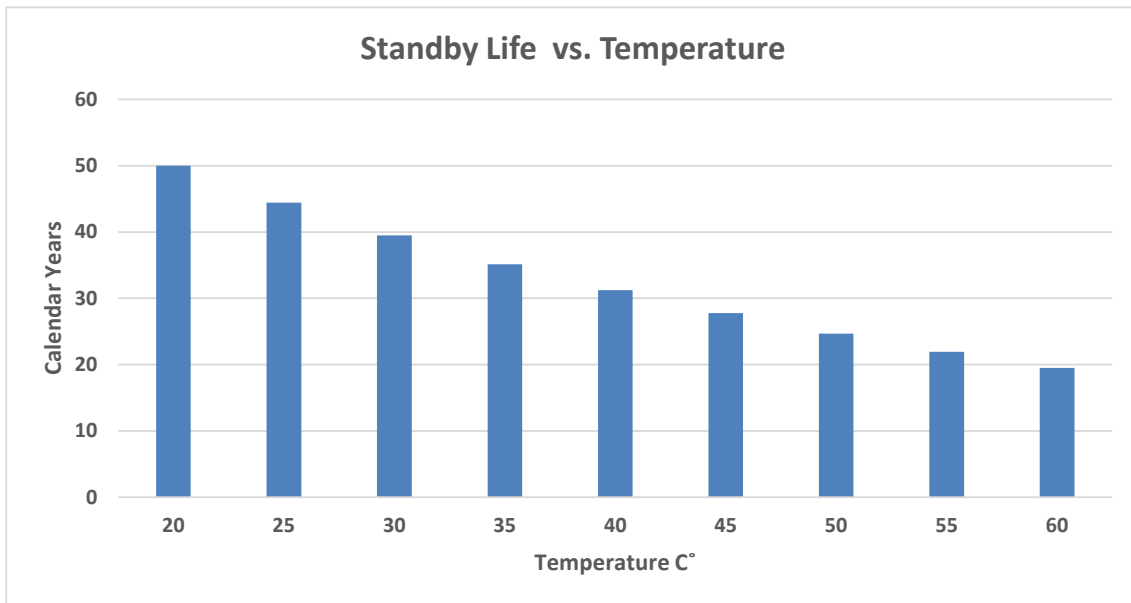
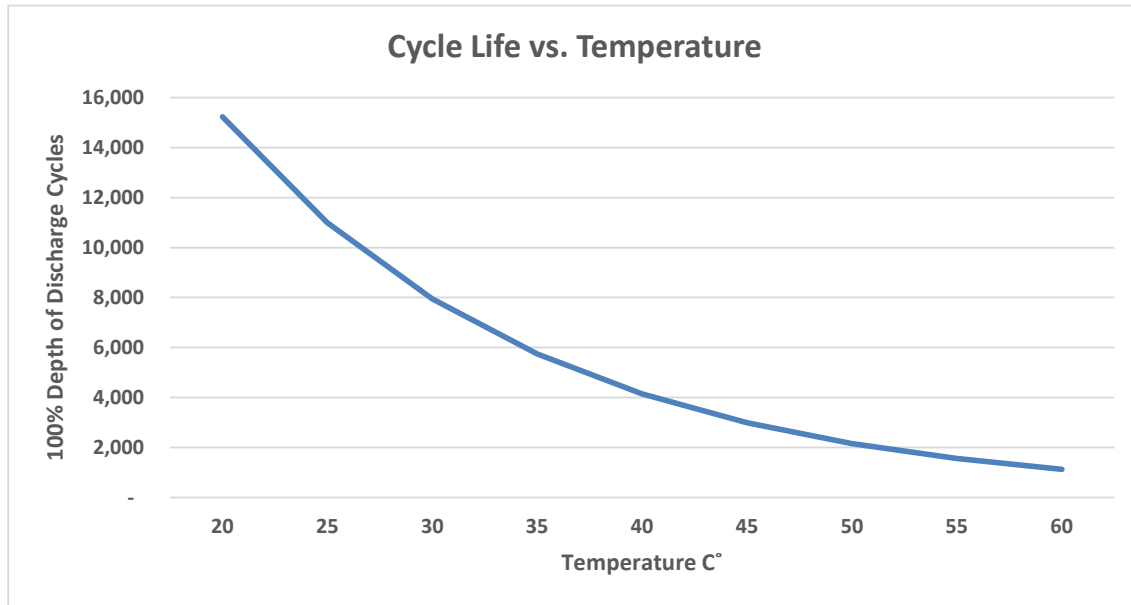
Transportation Classification: UN2795 Class 8

PEUKERT CELL CAPACITY:

Rate/Amps	C-Rate	Hours	Ah Delivered	% Rated Capacity
6	C/20	20	112	101%
7	C/15	15	111	101%
11	C/10	10	110	100%
14	C/8	8	109	100%
18	C/6	6	109	99%
22	C/5	5	108	99%
28	C/4	4	108	98%
37	C/3	3	107	98%
55	C/2	2	106	97%
110	C	1	105	95%

Important Notice

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