

FZA 65-12
12V 65AH



FZA 65-12



Physical Specification

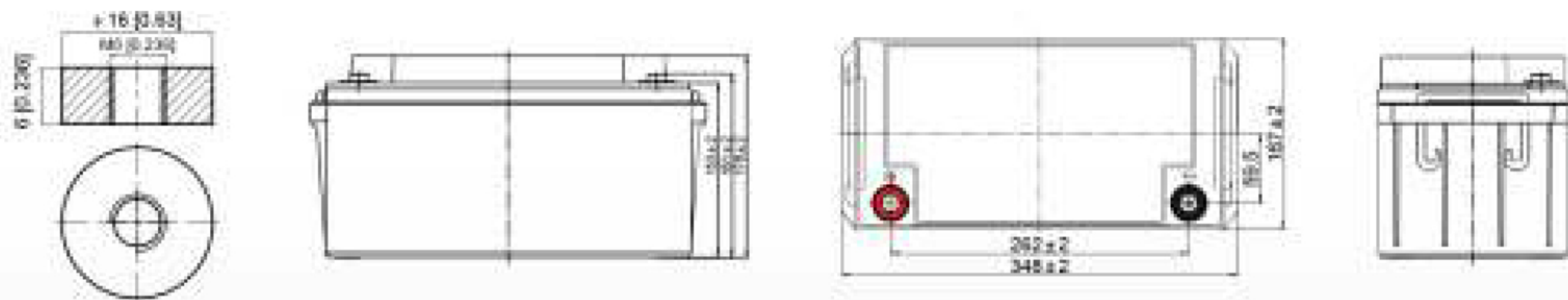
Part Number:	FZA 65-12
Length:	348 ± 2 mm (13.70 inches)
Width:	167 ± 2 mm (6.57 inches)
Container Height:	178 ± 2 mm (7.01 inches)
Total Height (with terminal):	178 ± 2 mm (7.01 inches)
Approx Weight:	Approx 20 kg (42.3lbs)

Specifications

Terminal Type	Normal Voltage	12V
	Normal Capacity (20HR)	65AH
	Standard Terminal	F10
Container Material	Optional Terminal	F6
	Standard Option	ABS
	Flame Retardant Option (FR)	ABS(UL94:VO)
Rated Capacity	65.0 AH/3.38A	(20hr, 1.80V/cell, 25°C / 77°F)
	62.5 AH/6.50A	(10hr, 1.80V/cell, 25°C / 77°F)
	56.0 AH/11.2A	(5hr, 1.75V/cell, 25°C / 77°F)
	48.9 AH/16.3A	(3hr, 1.75V/cell, 25°C / 77°F)
Max Discharge Current	780A (5s)	
Internal Resistance	Approx 7.3mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -15 ~ 50°C (5 ~ 122°F) Charge: 0 ~ 40°C (5 ~ 104°F) Storage: -15 ~ 40°C (5 ~ 104°F)
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
	Cycle Use	Initial Charging Current less than 19.5A.Voltage 14.4V ~ 15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C
	Standby Use	No limit on Initial Charging Current Voltage 13.5V ~ 13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C
	Capacity affected by Temperature	40°C (104°F) 103%
		25°C (77°F) 100%
		0°C (32°F) 86%
Design Floating Life at 20°C	10 Years	

Dimensions

F6 Terminal



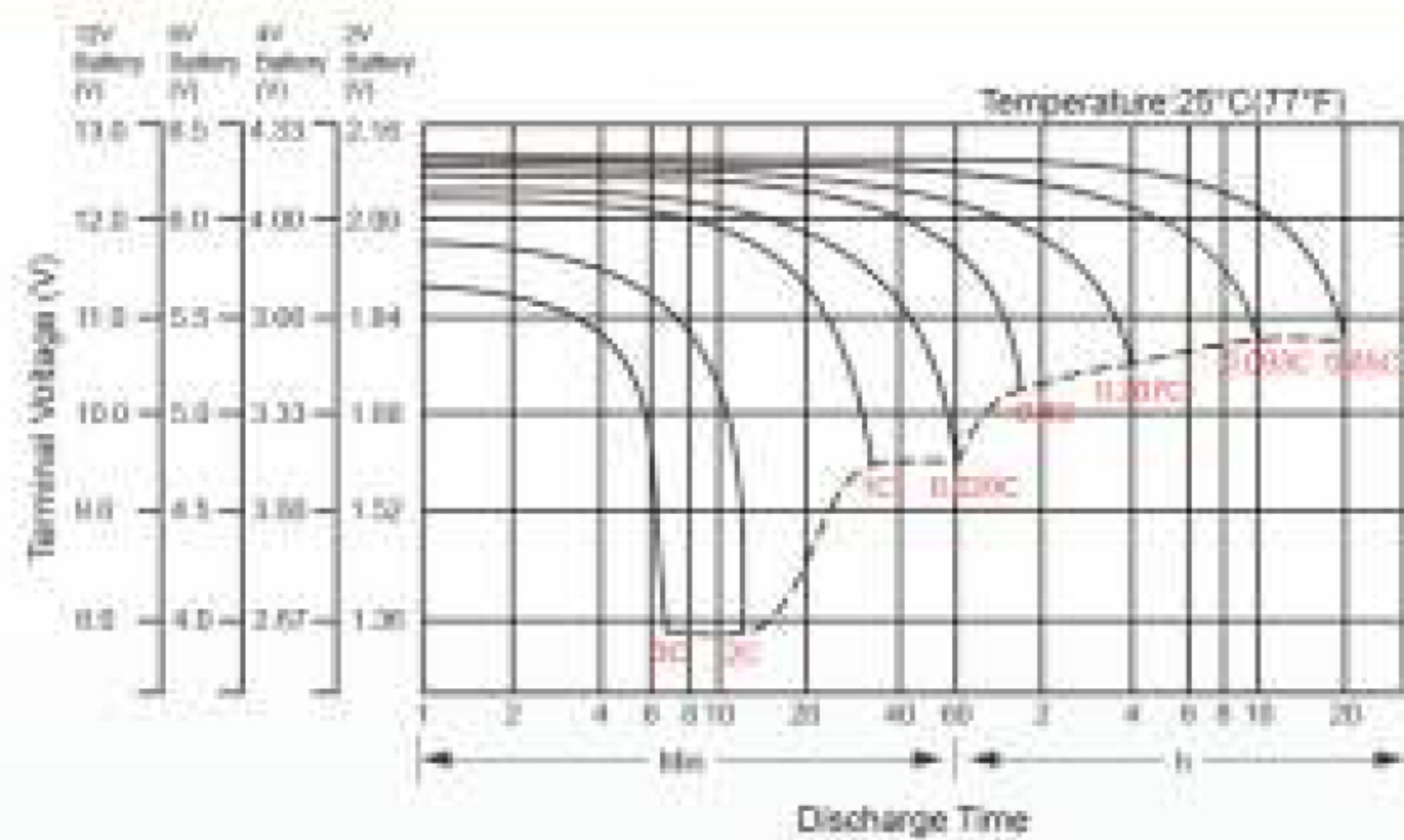
Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5 min	10 min	15 min	20 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	119.3	91.7	79.0	68.8	53.2	40.2	32.6	19.7	15.0	12.3	10.5	9.20	7.44	6.26	3.35
1.80V/cell	149.3	107.3	89.9	77.2	58.3	43.5	34.9	21.0	15.8	12.9	11.0	9.59	7.74	6.50	3.40
1.75V/cell	168.4	117.0	98.2	82.7	62.5	46.2	36.9	21.9	16.3	13.2	11.2	9.78	7.86	6.57	3.44
1.70V/cell	185.4	126.4	104.8	87.8	65.3	48.1	38.5	22.6	16.8	13.6	11.5	9.98	7.97	6.63	3.48
1.65V/cell	202.8	136.1	111.4	92.8	68.5	50.3	40.0	23.2	17.2	13.8	11.7	10.2	8.09	6.70	3.52
1.60V/cell	220.0	146.6	119.2	97.7	71.9	52.3	41.6	23.9	17.6	14.1	11.9	10.3	8.20	6.79	3.54

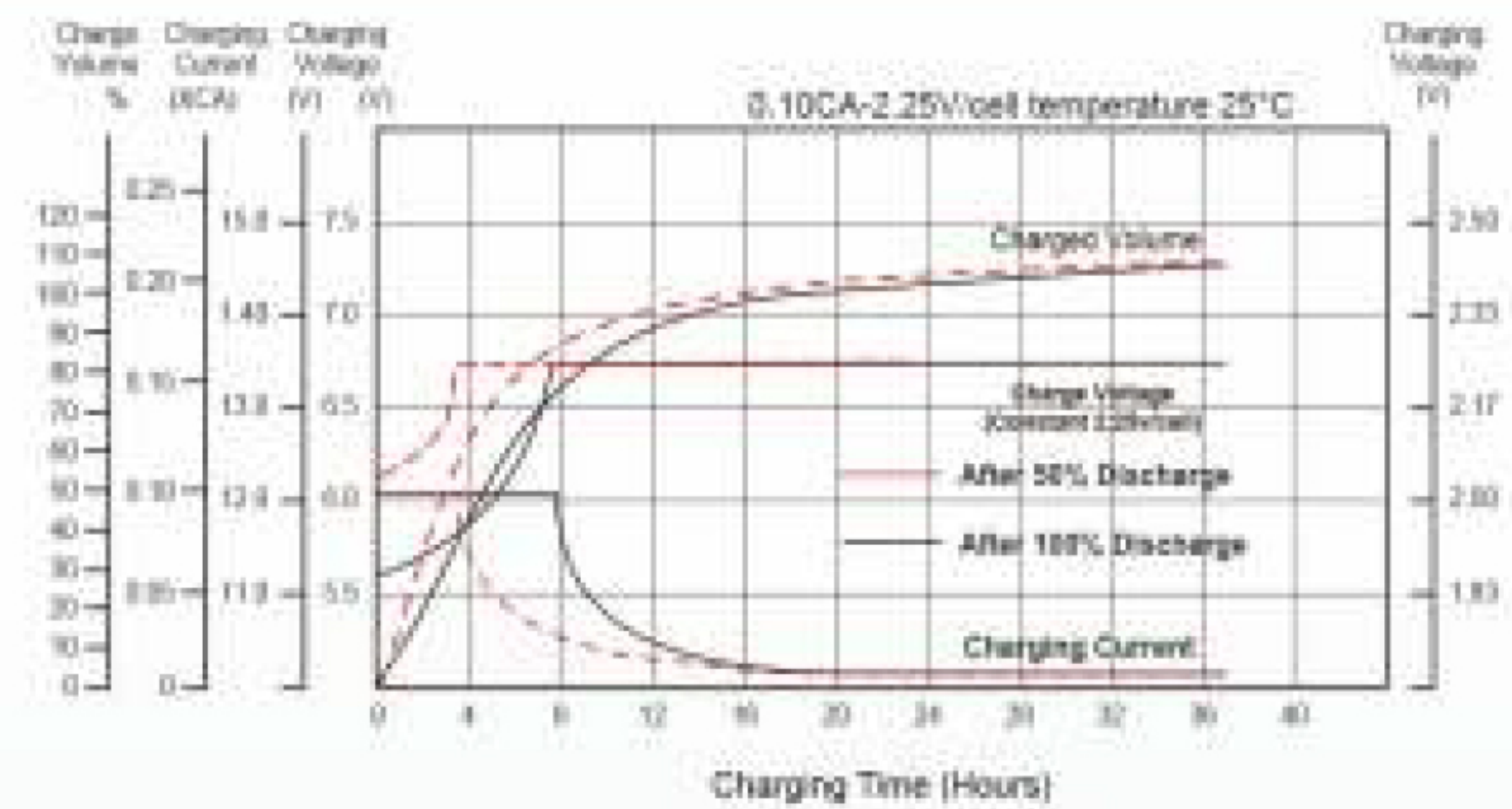
Constant Power Discharge (Watts) at 25°C (77°F)

F.V/Time	5 min	10 min	15 min	20 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	226.3	175.5	152.8	133.7	104.3	79.3	64.6	39.1	30.0	24.7	21.1	18.5	15.0	12.7	6.80
1.80V/cell	280.5	203.9	172.6	149.6	113.8	85.4	68.9	41.6	31.5	25.8	22.0	19.3	15.6	13.1	6.88
1.75V/cell	313.5	220.8	187.4	159.4	121.5	90.4	72.7	43.3	32.4	26.4	22.4	19.6	15.8	13.2	6.93
1.70V/cell	342.1	236.6	198.8	168.3	126.3	93.8	75.7	44.6	33.2	26.9	22.8	19.9	15.9	13.3	6.98
1.65V/cell	370.9	253.0	210.1	177.2	132.1	97.8	78.3	45.6	34.0	27.4	23.2	20.2	16.2	13.4	7.06
1.60V/cell	398.3	270.5	223.3	185.6	138.1	101.3	81.2	46.9	34.7	27.9	23.6	20.5	16.3	13.5	7.07

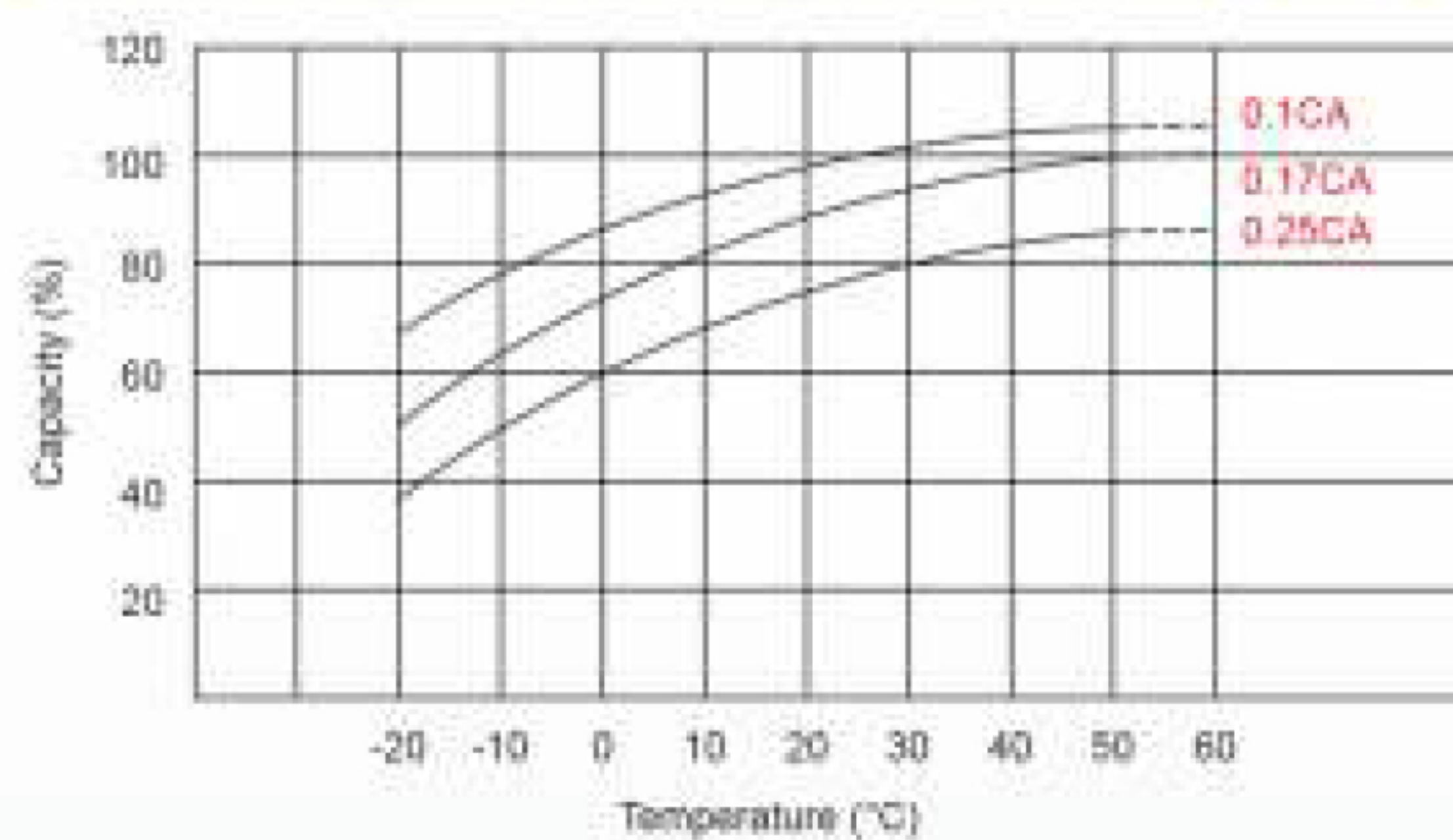
Discharge Characteristics



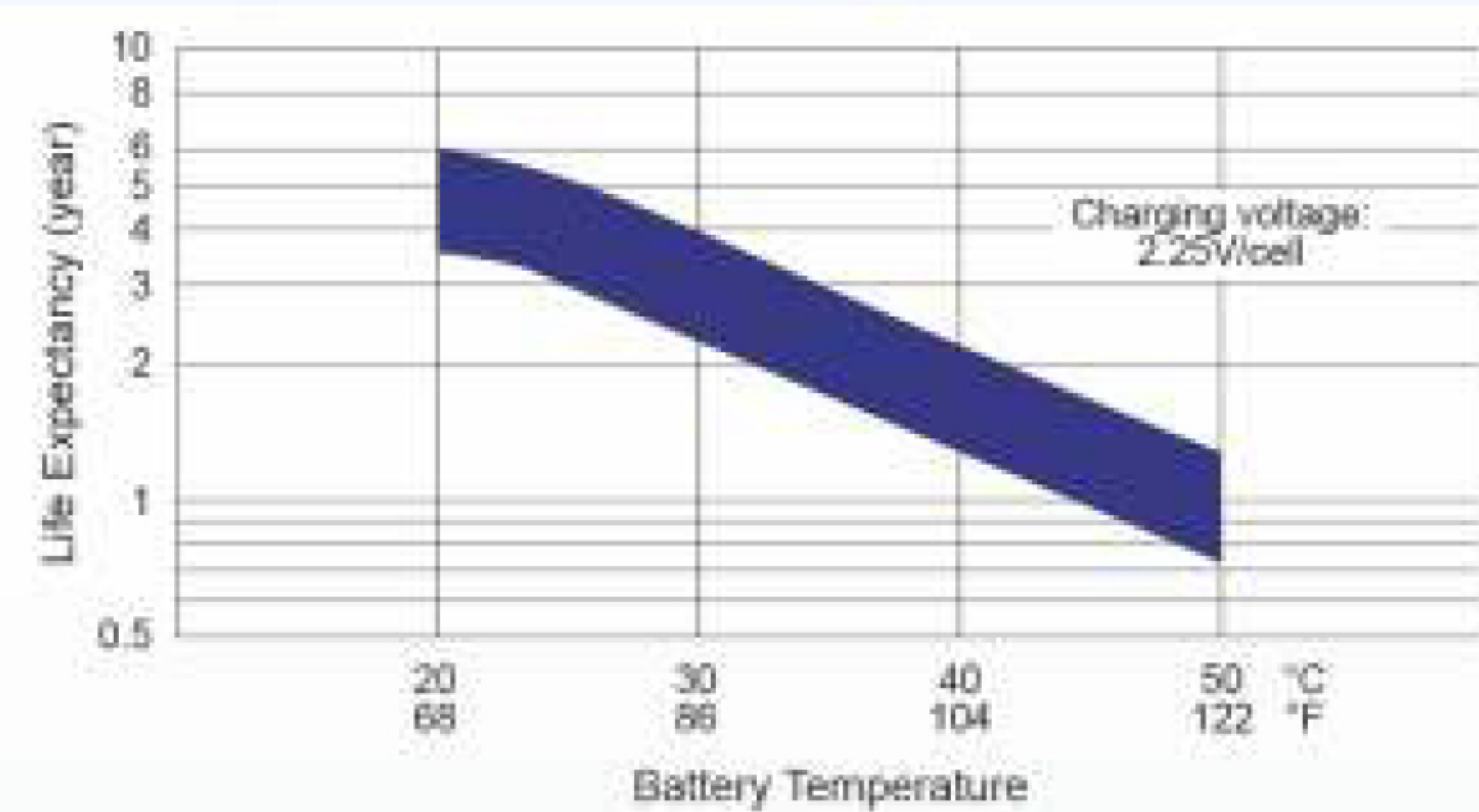
Float Charging Characteristics



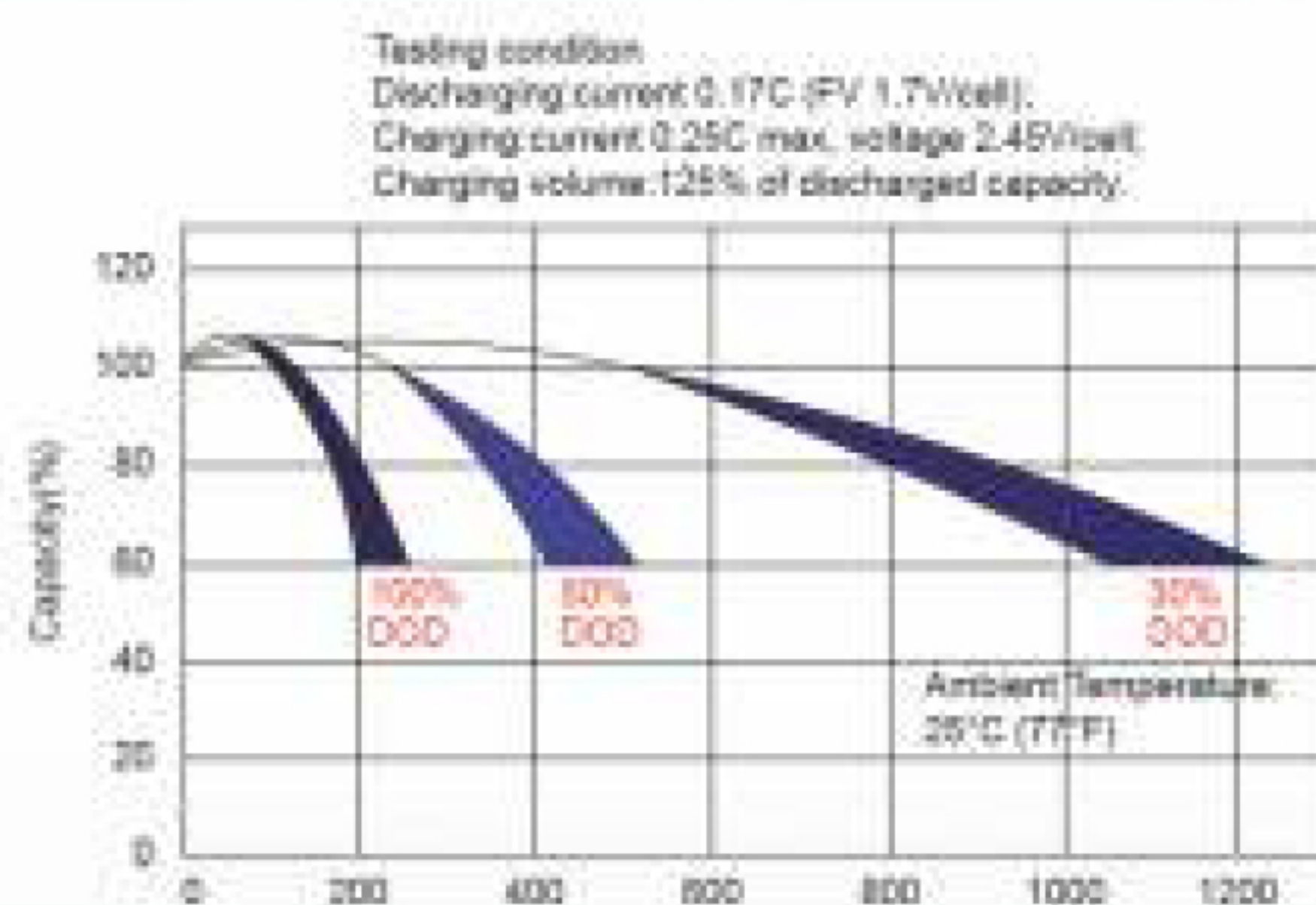
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics

