

# EXPFT-100-12V

**12 Volt 100 Amp.**  
Front Terminal Battery

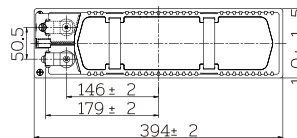
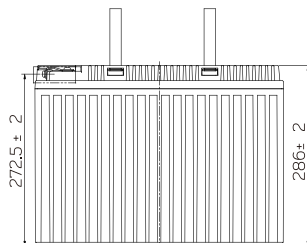
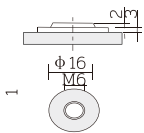
## Physical Specification

Part Number:	EXPFT-100-12V
Length:	394 ± 2mm (15.5 inches)
Width:	110 ± 2mm (4.33 inches)
Container Height:	286 ± 2mm (11.3 inches)
Total Height (with terminal):	286 ± 2mm (11.3 inches)
Approx Weight:	31.5 Kg (69.4 lbs)



## Dimensions

### ■ M6 Terminal



## Specifications

	Nominal Voltage (C10,1.80V/cell)	12V 100AH
Terminal Option	M6	
Container Material	Standard Option Flame Retardant Option (FR)	ABS ABS (UL94:VO)
Rated Capacity	(20hr,5.27A,1.80V/cell)	105.4 Ah
	(10hr,10.0A,1.80V/cell)	100.0 Ah
	(8hr,12.1A,1.75V/cell)	96.8 Ah
	(5hr,17.3A,1.75V/cell)	86.5 Ah
	(1hr,63.4A,1.67V/cell)	63.4 Ah
Max Discharge Current (5s)	1000 A	
Internal Resistance	Approx.4.5mΩ	
Discharge Characteristics		Discharge: -15°C~50°C (5°F~122°F)
	Operating Temp. Range	Charge: 0°C~40°C (32°F~104°F) Storage: -15°C~40°C (5°F~104°F)
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
	Cycle Use	Initial Charging Current less than 1.05A. Voltage 14.1V~14.4V at 25°C (77°F) Temp. Coefficient 30-mV/°C
	Self Discharge	No limit on Initial Charging Current Voltage 13.5V~13.8 V at 25°C (77°F) Temp. Coefficient 20-mV/°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	12+ Years	
Self Discharge	EXPLL deep cycle batteries may be stored for up to 6 months at 25°C (77°F) and then a refresh charge is required. For higher temperatures the time interval will be shorter. Self-discharge is less than 2%	

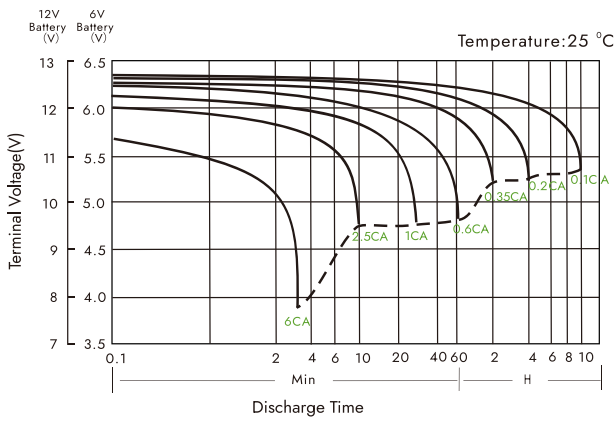
### Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h	
1.85V/cell	1	117.9	.151.7	128	7.82	74.2	2.52	3.31	6.23	8.18	7.15	13.5	1.11	32.9	91.4
1.80V/cell	0	129.0	.172.3	149	6.93	78.6	7.57	1.34	6.25	3.20	9.16	14.3	9.11	0.10	27.5
1.75V/cell	6	137.1	.189.8	157	8.97	81.6	9.59	1.35	2.26	8.20	3.17	14.4	1.12	1.10	29.5
1.70V/cell	1	144.4	102	.204.3	166	83.9	1.62	2.36	0.27	3.21	7.17	14.7	3.12	2.10	38.5
1.67V/cell	7	149.4	104	.213.3	171	85.7	4.63	8.36	4.27	6.21	9.17	14.8	4.12	4.10	48.5
1.60V/cell	6	153.2	110	.221.8	184	87.0	4.66	4.38	4.28	3.22	5.18	14.9	7.12	6.10	58.5

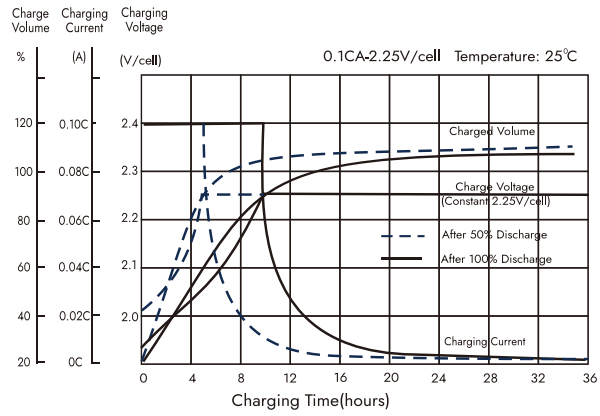
### Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	4.9	145.6	101.1	228.0	159.288.9	246	2.61	3.46	0.37	0.31	27.2	21.9	18.4	9.9
1.80V/cell	5.3	153.4	111.2	248.0	179.325.8	283	3.66	9.49	7.39	2.33	28.5	23.4	19.6	10.4
1.75V/cell	9.8	67.8	158.8	114.5	262.2	185.356.2	296	0.51	6.40	9.33	28.8	23.8	19.8	10.5
1.70V/cell	7.2	69.2	162.0	118.8	273.3	192.378.6	309	3.52	4.41	6.34	29.2	24.2	20.1	10.7
1.67V/cell	6.0	70.0	163.9	120.8	279.2	196.389.0	317	9.52	9.41	9.34	29.5	24.4	20.3	10.7
1.60V/cell	0.7	73.5	164.7	124.3	282.3	204.396.0	334	5.54	1.43	8.35	29.8	24.9	20.6	10.9

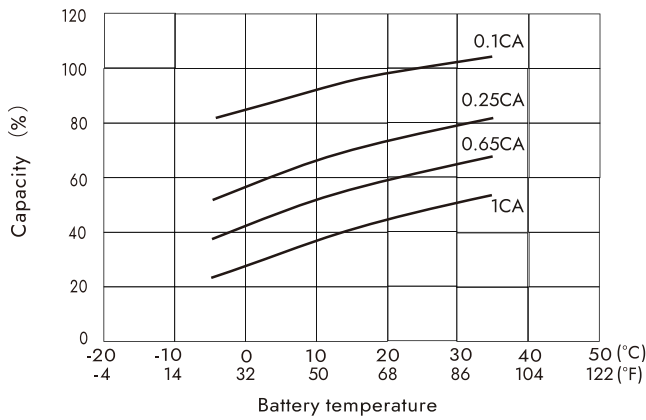
### Discharge Characteristics



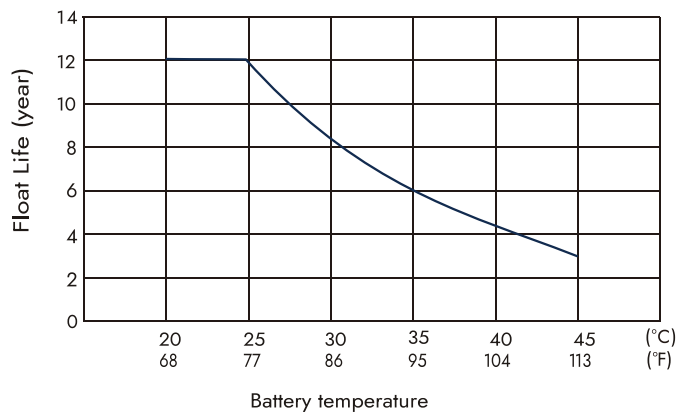
### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Float Service Life



### Temperature Effects in Relation to Battery Capacity

- Front terminal design
- Spill-free / Spill-proof
- Oxygen recombination technology
- Alloy plate grid
- Low self-discharge rate
- Absorbent Glass Mat (AGM)
- High power and volume rat
- Unrivalled energy density
- Valve regulated
- Extremely safe operations
- Short recharging time
- High reliability
- Rechargeable lead acid battery
- Optimum quality
- Developed by ExPII