EXPLL TECHNOLOGIES

EXPFT-70-12V

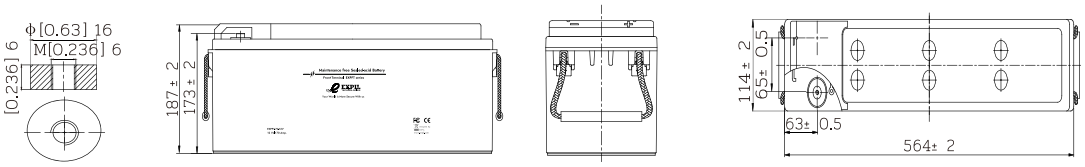
12 Volt 70 Amp.
Front Terminal Battery

Physical Specification

Part Number:	EXPFT-70-12V
Length:	564 ± 2mm (22.2 inches)
Width:	114 ± 2mm (4.49 inches)
Container Height:	187 ± 2mm (7.36 inches)
Total Height (with terminal):	187 ± 2mm (7.36 inches)
Approx Weight:	25.5 Kg (56.2 lbs)

Dimensions

■ M6 Terminal



3 YEARS WARRANTY

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Specifications

	Nominal Voltage	12V
	(C10,1.80V/cell)	70AH
Terminal Option	M6	
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	(20hr,3.73A,1.80V/cell)	74.6 Ah
	(10hr,7.00A,1.80V/cell)	70.0 Ah
	(8hr,8.55A,1.75V/cell)	68.4 Ah
	(5hr,12.3A,1.75V/cell)	61.5 Ah
	(1hr,44.8A,1.67V/cell)	44.8 Ah
Max Discharge Current (5s)	700 A	
Internal Resistance	Approx.5.2mΩ	
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 14.4V~15V at 25°C (77°F) Temp. Coefficient -30mV/°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%	

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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	104.6	91.6	81.3	64.7	49.8	36.9	22.1	16.7	13.3	11.1	10.0	7.85	6.56	3.52
1.80V/cell	123.9	106.4	91.8	71.3	53.6	40.8	24.1	18.1	14.3	12.0	10.6	8.40	7.00	3.73
1.75V/cell	135.2	115.4	97.0	74.2	55.2	42.3	24.8	18.6	14.7	12.3	10.7	8.55	7.11	3.76
1.70V/cell	143.6	120.4	100.6	76.6	56.6	43.9	25.6	19.1	15.1	12.5	10.8	8.70	7.22	3.80
1.67V/cell	149.1	123.5	103.5	78.0	57.5	44.8	26.0	19.4	15.3	12.7	10.8	8.80	7.28	3.83
1.60V/cell	153.3	130.2	105.8	79.4	58.6	47.0	27.1	20.1	15.8	13.1	10.9	9.00	7.44	3.90

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	199.2	176.1	157.5	126.2	97.7	71.7	43.3	32.7	26.1	21.9	20.1	15.5	13.0	6.99
1.80V/cell	234.3	203.3	176.8	138.4	104.6	78.8	46.8	35.3	28.1	23.5	21.1	16.6	13.8	7.37
1.75V/cell	253.9	219.0	186.1	143.5	107.4	81.1	48.0	36.1	28.7	24.0	21.3	16.8	14.0	7.46
1.70V/cell	266.1	226.0	190.9	146.7	109.2	83.5	49.3	36.9	29.3	24.4	21.5	17.1	14.2	7.55
1.67V/cell	272.0	228.4	194.0	147.8	109.9	84.9	49.9	37.4	29.6	24.7	21.7	17.2	14.3	7.60
1.60V/cell	273.7	230.2	195.7	148.5	111.3	88.2	51.6	38.6	30.5	25.3	21.9	17.6	14.6	7.73

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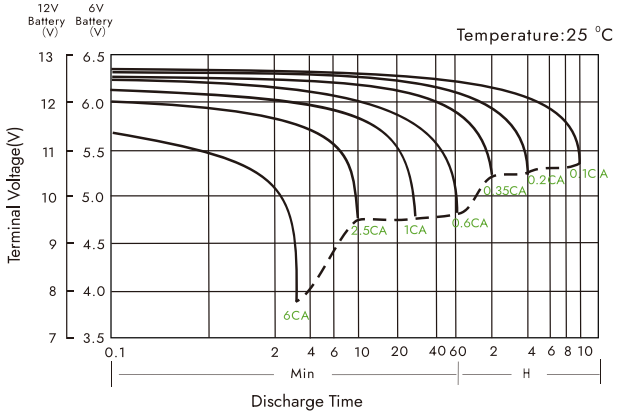
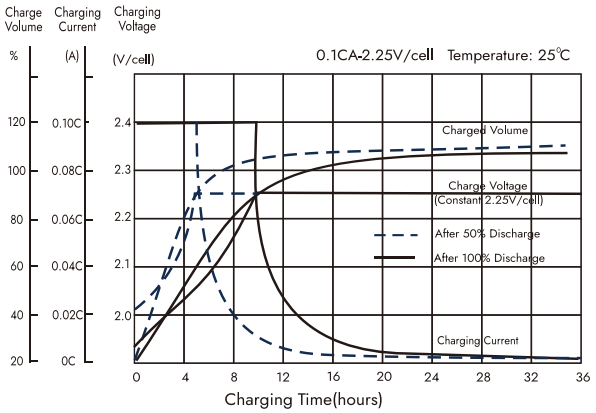
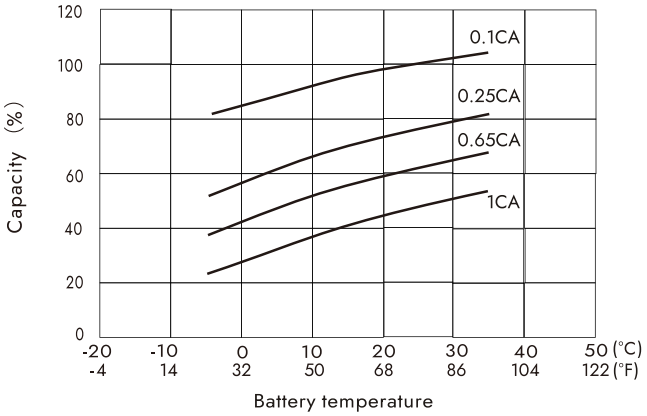
Discharge Characteristics



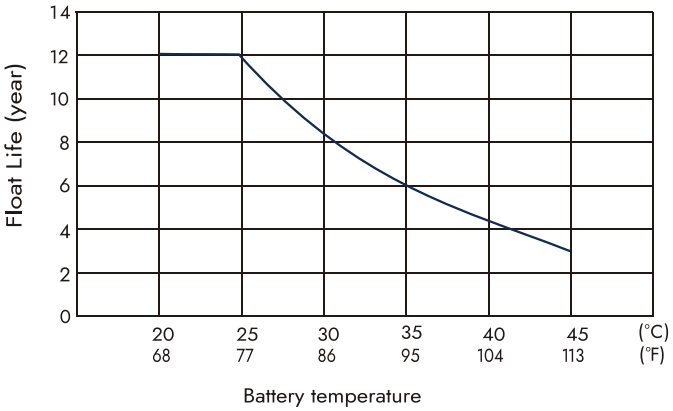
Float Charging Characteristics



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 ExPll

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