



PowerSafe[®]

FTC-P Performance Specifications

Features and Benefits

- Capacity range 840 to 1810Ah
- Lead-calcium alloy
- Configurable jar/plate orientation
- Ideal for long duration float applications
- Lead-calcium grids minimize watering requirements
- 20 year life expectancy in float service at 77°F (25°C) ambient temperature

Construction

- 0.34" thick positive grids provide excellent long discharge rates and long life
- Negative plate designed to balance active material and enhance performance in float applications
- Separator - microporous rubber with "Vitrex" glass fiber retainers
- Jar and cover material is flame retardant UL94-V-0 PVC
- Electrolyte - dilute sulfuric acid with specific gravity of 1.215
- Slide-Lock™ post seal design
- Flame arrestors - included for increased operational safety

Installation and Operation

- Configurable jar/plate orientation
- Dual posts for high current carrying capability
- Excellent long discharge performance
- Operating temperature: 32°F (0°C) to 104°F (40°)
Recommended temperature: 68°F (20°C) to 86°F (30°C)

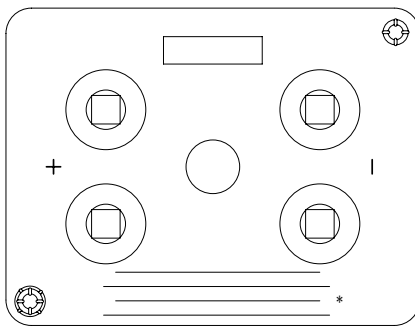
Standards

- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

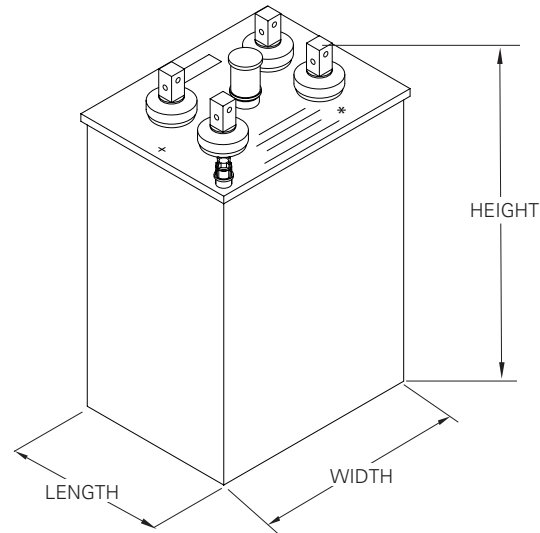
General Specifications

Battery Type	Nominal Ah Capacity*	Nominal Dimensions						Short Circuit Current	Weight - Volumes					
		Length		Width		Height			Unpacked		Electrolyte only/1.215 SG			
		in	mm	in	mm	in	mm	lbs	kg	lbs	kg	gal	L	
FTC 11P	840	11.1	282	14.5	368	22.7	577	5460	217.6	98.9	80.3	36.4	7.9	29.9
FTC 21P	1680	11.1	282	14.5	368	22.7	577	10050	302.3	137.4	70.1	31.8	6.9	26.1
FTC 23P	1810	11.1	282	14.5	368	22.7	577	11060	319.2	145.1	68.1	30.9	6.7	25.4

* Nominal Ah capacity is based on 8 hour rate to 1.75 volts per cell @ 77°F (25°C)



* Plate Direction



Constant Current Discharge Performance Data

Discharge Currents (Amperes) to 1.75Vpc at 77°F (25°C)**

Battery Type	Nominal Capacity*	Standby Time (Minutes)		Standby Time (Hours)								
		15	30	1	2	3	4	5	6	8	12	24
FTC 11P	840	573	492	384	270	211	173	148	130	105	73	44
FTC 21P	1680	1100	946	739	514	400	332	287	255	210	149	85
FTC 23P	1810	1210	1041	801	556	433	358	308	274	225	161	92

Discharge Currents (Amperes) to 1.81Vpc at 77°F (25°C)**

Battery Type	Nominal Capacity*	Standby Time (Minutes)		Standby Time (Hours)								
		15	30	1	2	3	4	5	6	8	12	24
FTC 11P	840	423	402	327	242	192	160	138	122	99	71	43
FTC 21P	1680	814	774	629	458	366	309	270	242	199	144	84
FTC 23P	1810	889	842	678	496	395	332	290	260	214	156	90

Discharge Currents (Amperes) to 1.84Vpc at 77°F (25°C)**

Battery Type	Nominal Capacity*	Standby Time (Minutes)		Standby Time (Hours)								
		15	30	1	2	3	4	5	6	8	12	24
FTC 11P	840	347	346	293	222	178	150	130	115	93	68	42
FTC 21P	1680	667	666	560	421	340	290	256	229	188	138	81
FTC 23P	1810	719	719	605	455	367	312	275	246	202	149	87

Discharge Currents (Amperes) to 1.88Vpc at 77°F (25°C)**

Battery Type	Nominal Capacity*	Standby Time (Minutes)		Standby Time (Hours)								
		15	30	1	2	3	4	5	6	8	12	24
FTC 11P	840	251	251	240	188	154	131	115	102	82	62	39
FTC 21P	1680	478	478	456	359	298	258	228	205	167	124	74
FTC 23P	1810	517	517	493	387	320	277	245	220	180	135	80

*Nominal Ah capacity based on the 8 hour rate to 1.75Vpc at 77°F (25°C)

**Ampere values listed represent 100% of the cells capacity. Initial capacity shall be a minimum 90% of these values per IEEE 450.



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