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**TYPE 80 CABINET**  
*Bulk Power Retrofit Kit*

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# Introduction

PowerSafe's years of experience in the standby battery industry give us the knowledge to design and manufacture a retrofit kit that meets the needs of Type 80C and 80D cabinet operators. The T80 Retrofit Kit significantly improves the battery operating environment and assures longer life, higher reliability and fewer replacements. The T80 also increases battery capacity and makes space in the cabinet for additional equipment. The installed T80 has the look of an integral part of the cabinet.

## PowerSafe T80 Retrofit Kit Advantages:

- Longer backup time**  
 Battery capacity increased to 200Ah.
- Longer battery life**  
 Improved battery design and operating environment for optimum life.
- Lower maintenance costs and down time**  
 12V100F Monoblocs are designed for low maintenance and high reliability.
- Improved battery performance and life**  
 Thermostatically controlled heater pads and fan, moderate seasonal temperature changes within the battery enclosure.
- Lower operating costs**  
 Long battery life and high reliability extend replacement intervals and reduce operating costs.
- Quick and easy installation**  
 The T80 does not require structural cabinet or concrete pad modification.
- Fits under Type 80C and 80D cabinets**  
 Matches cabinet footprint and color.
- Compatible with cabinet alarm and security systems**  
 Cabinet door must be open to gain access to the battery enclosure

- Creates space in the cabinet**

Relocating the batteries in the T80 creates space for extra equipment, fiber technology, or rectifier redundancy.



## T80 Retrofit Kit Technical Data

BATTERY					
Type	Model	# String	Quantity	Capacity	Weight
PowerSafe	6VF11	1	4	100	420 lbs
PowerSafe	6VF11	2	8	200	840 lbs

FLOAT VOLTAGE						
Temp °F	32-48	49-58	59-76	77-85	86-93	94-104
Float Vpc	2.35-2.33	2.33-2.30	2.30-2.27	2.27-2.25	2.25-2.23	2.23-2.21

ENCLOSURE				
Type	Model	# String	Quantity	Weight
T80 C/D	T80-CF-HP-V	1 or 2	1	205 lbs

ACCESSORIES		
	Fan	Heater pads
Operating Temp °F	85 - 70	40 - 60



## The Newest Technology for the Best in Standby Batteries

The latest advances in design technology give PowerSafe standby batteries up to twice the power of traditional lead acid and nickel cadmium batteries, even under the harshest conditions. Easy installation and safe, leakproof construction means cost effective maintenance.

Standard features on all PowerSafe batteries include:

- **High conductivity pillars** with threaded brass inserts.
- **Inter-unit connectors** of plated copper.
- **Flame-retardant covers** with dead-tops.
- **Sealed lids** of flame-retardant ABS plastic.
- **High integrity pillar seals** for long, leakproof life.
- **Self-sealing relief valves** which operate at pressures below 4 p.s.i.
- **Rugged thick positive plates** of pasted construction, with grid cast in a ternary lead-tin calcium alloy.
- **Balanced negative plates** of pasted grid construction.
- **Tough V0 rated cell boxes** of thick-wall, flame retardant ABS plastic are 29% oxygen index rated and highly shock and vibration resistant.
- **Low resistance separators** of microporous glass fibre which absorb the electrolyte.
- **Flame arrestors** built into each monobloc for added safety.
- **UL Approved**

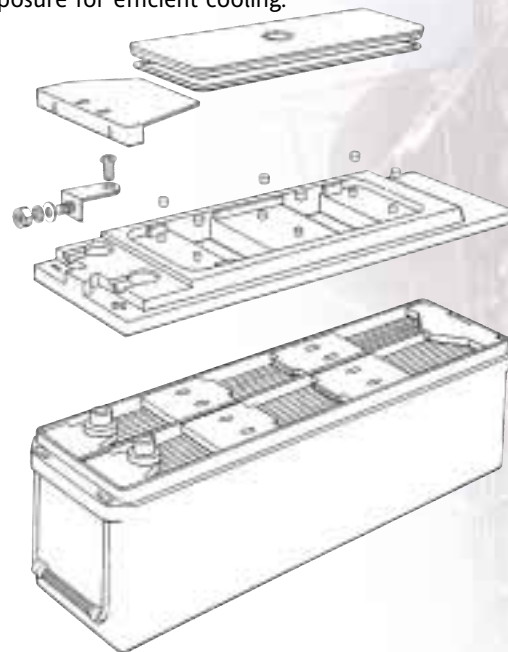
## Nominal Performance for 6VF11 monoblocs at 77°F (25°C)

End Vpc	CONSTANT CURRENT (Amps) / TIME											
	1 hr	1.5 hr	2 hr	2.5 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	9 hr	10 hr
1.63	66.9	49.1	38.8	32.5	28.0	22.3	18.6	16.0	14.1	12.6	11.5	10.5
1.65	66.9	49.1	38.8	32.5	28.0	22.3	18.6	16.0	14.1	12.6	11.5	10.5
1.67	66.9	49.1	38.8	32.5	28.0	22.2	18.5	15.9	14.1	12.6	11.4	10.5
1.69	66.9	49.1	38.8	32.5	28.0	22.2	18.5	15.9	14.1	12.5	11.4	10.5
1.71	66.8	49.0	38.8	32.5	28.0	22.1	18.5	15.9	14.0	12.5	11.4	10.5
1.73	66.6	48.9	38.8	32.4	27.9	22.1	18.4	15.8	14.0	12.5	11.4	10.4
1.75	66.3	48.7	38.6	32.4	27.9	22.0	18.4	15.8	14.0	12.5	11.3	10.4
1.80	64.6	47.8	37.9	31.9	27.4	21.8	18.2	15.6	13.8	12.3	11.2	10.3
1.85	61.6	46.1	36.8	30.6	26.3	20.9	17.5	15.1	13.4	11.9	10.9	10.0

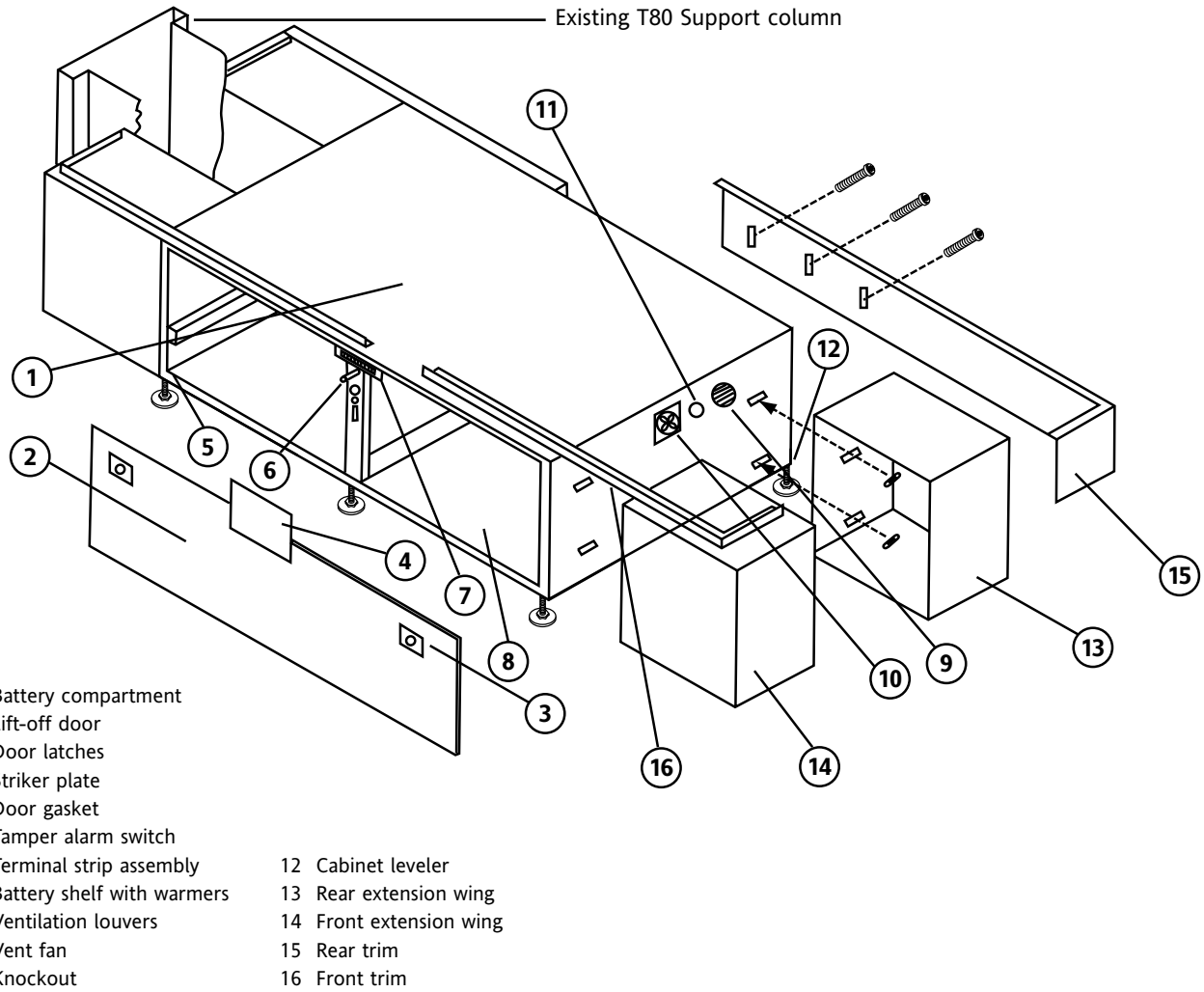
## PowerSafe's new 6VF11 standby battery and T80 enclosure are designed to put your Type 80C and 80D cabinets in better shape

More battery capacity, longer life and improved operating environment equals longer backup time, higher reliability, fewer replacements and lower operating costs.

- **Easier Handling and Access**  
Lifting handles make installation easy; standard shipments of 48 Volt units means easier distribution to the site. With connection terminals located on the face of the monobloc, cell connection is quick and simple, and cell replacement is easy.
- **Longer Life**  
Thick positives and technological advances in interior component balance create a more durable, long lasting battery.
- **Compact Installation**  
A 200 ampere hour battery system in a T80 kit fits below Type 80C and 80D cabinets.
- **Temperature Resistant**  
Monobloc design provides each cell full wall exposure for efficient cooling.



# Type 80 Cabinet Construction



## ORDERING INFORMATION

Part Number	Quantity	Description
T80 CF-HP-V	1	T80 Retrofit Kit for type 80C & 80D cabinets
6VF11	8	Two 48V strings of 6VF11 12V 100Ah monoblocs



**Global Headquarters**  
 P.O. Box 14145 Reading,  
 PA 196212-4145  
 Tel: +1-610-208-1991  
 +1-800-538-3627  
 Fax: +1-610-372-8613

**EnerSys EMEA**  
 Brussels, Belgium  
 Tel: +32 (0)2 247 94 47

**EnerSys Asia**  
 Guangdong, China  
 Tel: +86-755-2689 3639

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