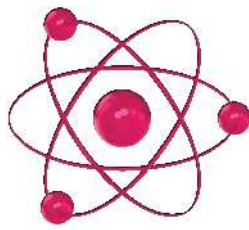


# FUSION GEL BATTERIES



## Tubular Gel OPzV Series

### 6OPzV600

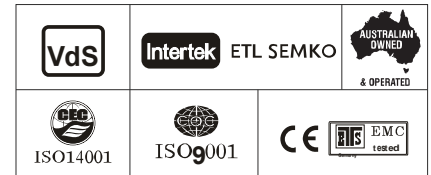


#### Specifications

Nominal Voltage	2V	
Nominal Capacity (100HR)	756.0AH @ 100Hr to 1.80V/cell	
Dimensions	Length	145 +/-2mm (5.17 inches)
	Width	206 +/-3mm (8.11 inches)
	Container Height	646 +/-3mm (25.4 inches)
	Total Height (with Terminal)	681 +/-3mm (26.8 inches)
Approx Weight	Approx 46.0 kg (101.4lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	756AH/7.56A	(100hr, 1.80V/cell, 20°C/68°F)
	600AH/60A	(10hr, 1.80V/cell, 20°C/68°F)
	520AH/104A	(5hr, 1.75V/cell, 20°C/68°F)
	456AH/152A	(3hr, 1.75V/cell, 20°C/68°F)
	341AH/341A	(1hr, 1.60V/cell, 20°C/68°F)
Max. Discharge Current	4800 (5s)	
Internal Resistance	Approx 0.62mΩ	
Operating Temp. Range	Discharge	-20~55°C (-4~131°F)
	Charge	0~40°C (32~104°F)
	Storage	-20~50°C (-4~122°F)
Nominal Operating Temp. Range	25° +/-3°C (77° +/-5°F)	
Cycle Use	Initial Charging current less than 150.0A. Voltage 2.4V~2.5V at 20°C (68°F) Temp Coefficient -5mV/°C	
	No limit on Initial Charging Current. Voltage 2.25V~2.3V at 20°C (68°F) Temp. Coefficient -3mV/°C	
Standby Use	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	<2% per month at 20°C (68°F)	

#### Applications

- ◆ Solar Farm Applications
- ◆ Communication Systems
- ◆ Green Energy Systems
- ◆ Wind Power Stations
- ◆ Telecommunications
- ◆ Interruptible Power Supply (UPS)
- ◆ Emergency Lighting Systems
- ◆ Power Stations
- ◆ Electric Power Systems (EPS)
- ◆ Railway Signaling
- ◆ Communication Power Supply
- ◆ Emergency Backup Power Supply



#### Constant Current Discharge (Amperes) at 20°C (68°F)

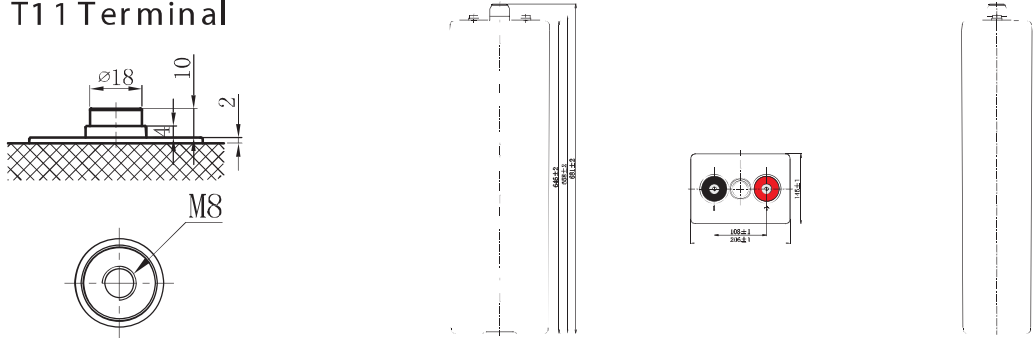
F.V/Tim e	10m in	15m in	30m in	1h	2h	3h	5h	8h	10h
1.85V/cell	409	389	335	267	177	137	94.2	65.8	56.2
1.80V/cell	503	470	390	301	195	149	102	70.5	60.0
1.75V/cell	595	526	416	313	200	152	104	71.7	60.9
1.70V/cell	668	574	440	325	205	156	105	72.6	61.6
1.65V/cell	717	607	458	335	209	158	107	73.5	62.3
1.60V/cell	750	628	469	341	212	160	108	74.1	62.7

#### Constant Power Discharge (Watts) at 20°C (68°F)

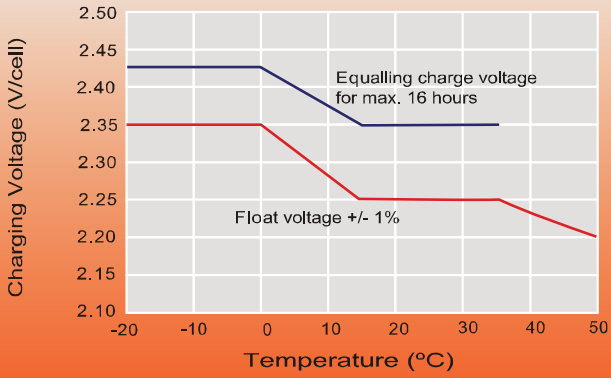
F.V/Tim e	10m in	15m in	30m in	1h	2h	3h	5h	8h	10h
1.85V/cell	761	730	640	517	344	268	185	130	112
1.80V/cell	919	871	738	578	376	290	199	139	119
1.75V/cell	1069	962	779	598	385	295	202	141	121
1.70V/cell	1178	1034	816	617	393	300	205	143	122
1.65V/cell	1243	1076	840	631	399	304	207	144	123
1.60V/cell	1276	1098	853	637	402	306	208	145	124

# Dimensions

## T11 Terminal

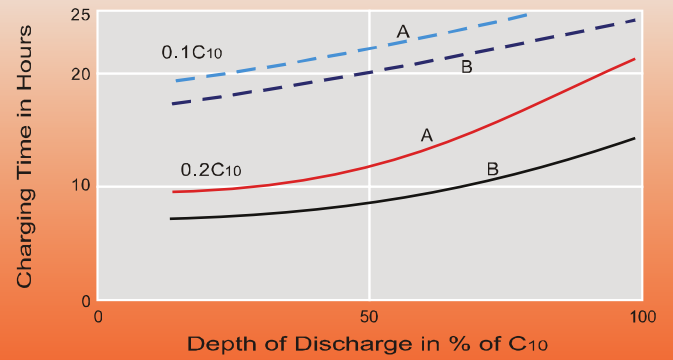


### Discharge Characteristics



For continuous charging we recommend a voltage of 2.25V. The charging voltage must be compensated to the curve for a continuously different battery ambient temperature.

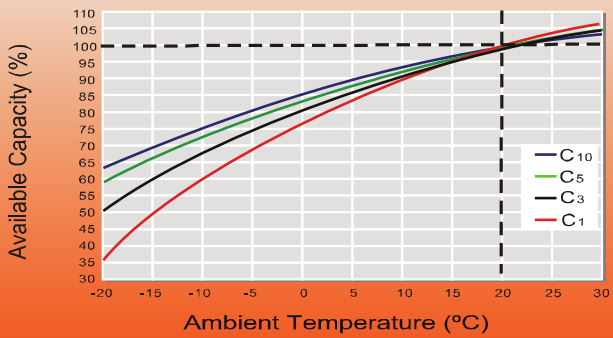
### Charging Characteristics



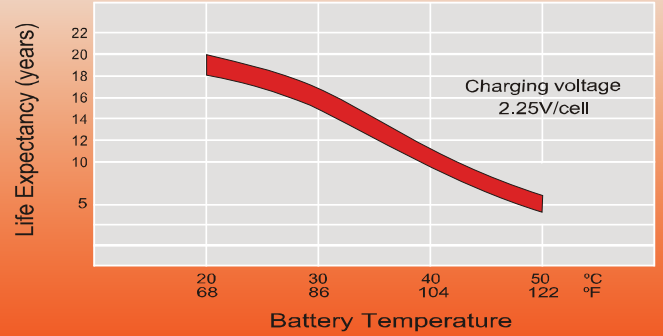
Charge voltage:

- A — 2.25 V/cell
- B — 2.40 V/cell
- State of charge 100%
- State of charge 90%

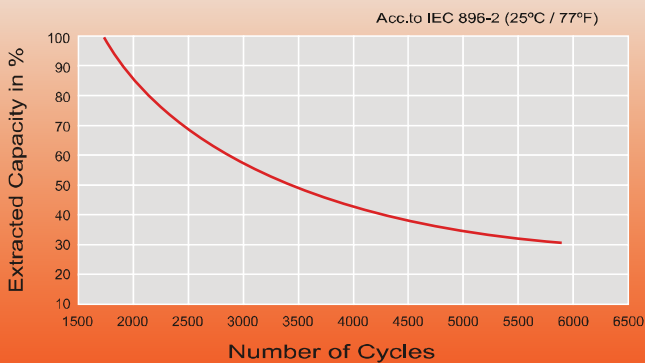
### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life



### Cycle Life in Relation to Depth of Discharge



### General Relation of Capacity VS Storage Time

