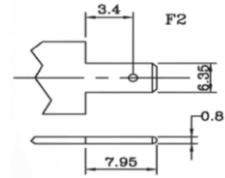
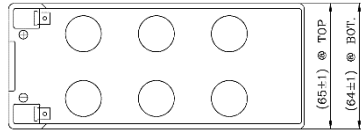
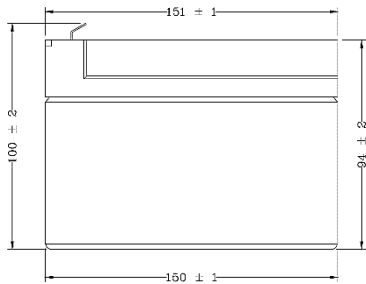


## TECHNICAL DATA SHEET FOR EP 7.5-12 (12V 7.5AH) VRLA BATTERY

### BATTERY OUTLINE



### CONSTRUCTION:

- ▶ Positive and negative plates in lead-tin-calcium alloy. ▶ Separator - low resistance micro porous glass fiber.
- ▶ The electrolyte is absorbed within this material, preventing acid leakage in case of accidental damage.
- ▶ Terminals with a large surface area provide maximum conductivity. ▶ Self-regulating pressure relief valve. ▶ 100% ensured capacity (through Data-logger) during manufacturing. ▶ Stronger, sturdier & attractive packaging. ▶ Especially suited for UPS & Power Application

### FEATURES: -

- ▶ Free from Orientation Constraints. ▶ Eco-Friendly. ▶ Easy Handling. ▶ Ready to Use. ▶ Long Service Life. ▶ Low Self-discharge. ▶ Excellent Charge retention & recovering ability. ▶ Superior High-Rate Discharge. ▶ High Reliability.

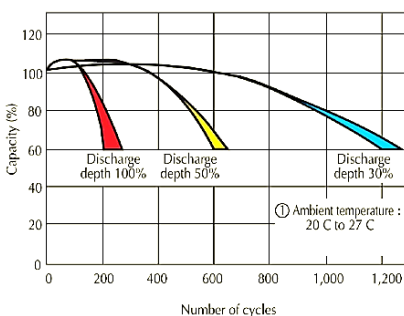
Performance Characteristics confirming to JISC8702

Battery Type	Nominal Voltage (V)	Rated Capacity (Ah) at 27°C						Dimensions (mm)				Weight (Kg) (±5%)
		20 hr 1.75V/cell	10 hr 1.75V/cell	3 hr 1.7 V/cell	1.5 hr 1.7V/cell	1 hr 1.6V/cell	30min 1.6V/cell	Overall Height ±2	Height up to lid top ±2	Length ±1	Width ±1	
EP7.5-12	12	7.5	6.9	5.5	5.3	4.5	3.7	100	94	151	65	2.40

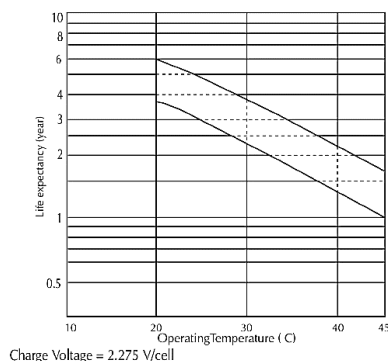
### Charging Parameters

Recharge Voltage	Voltage setting per 12V unit for ambience Temp. 20-30 @C	Current setting
FLOAT	13.7V ± 0.1V	Maximum: 0.3CA Minimum: 0.1CA
BOOST	14.1V ± 0.1V	
CYCLIC	14.7V ± 0.1V	

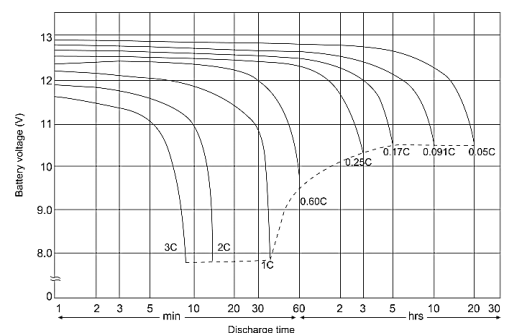
### Cyclic Service Life



### Float Service Life



### Discharge Characteristics



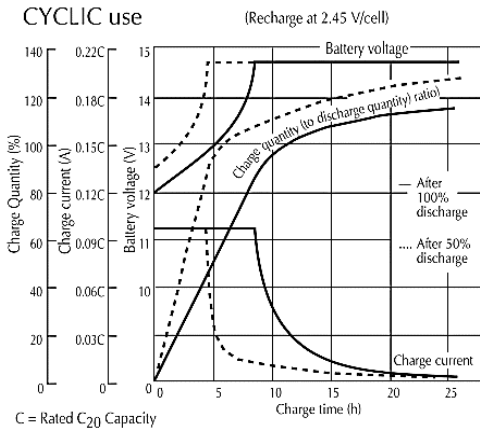
### Constant Power Discharge Rating in Watts per Battery @27°C

	Ah	5Min	10Min	15Min	20Min	30Min	60Min
<b>Watt/Battery @ 1.60V</b>	<b>7.5Ah</b>	332	227	174	141	103	59
<b>Watt/Battery @ 1.70V</b>		315	221	168	137	101	57
<b>Watt/Battery @ 1.80V</b>		284	200	155	128	95	55

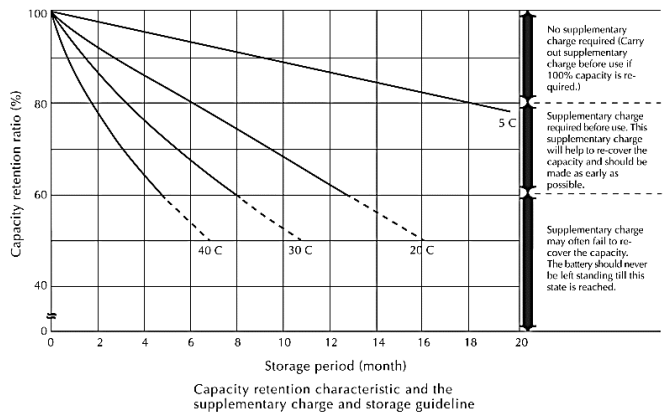
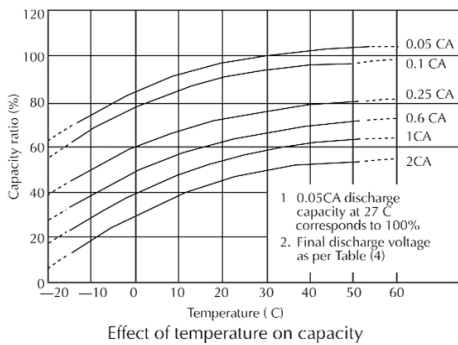
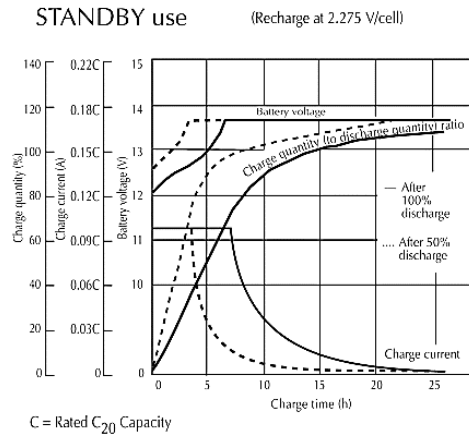
### Discharge Current & Recommended Final Discharge Voltage

Discharge Current (A)	Final Discharge Voltage(V/Cell)
0.2 C > (A) or intermittent discharge	1.75
0.2 C < or = (A) < 0.5 C	1.70
0.5 C < or = (A) < 1.0 C	1.55
1.0 C < or = (A)	1.30

#### CYCLIC use



#### STANDBY use



### Product Details

<b>AH Efficiency</b>	>90%
<b>WH Efficiency</b>	>80%
<b>Internal Resistance @ full charge</b>	22 mΩ
<b>Short Circuit Current</b>	258 Amps
<b>Operating Temperature Range</b>	0°C to 45°C
<b>Self-Discharge/Month @ 27°C</b>	<3% of Rated Capacity
<b>Recommended period of storage</b>	3 months from the date of manufacturing and to be stored in a covered place at 27°C
<b>Material of container</b>	ABS (FR Grade Optional)
<b>Type of +ve &amp; -ve plate</b>	Flat Pasted
<b>Recommended Terminal Torque</b>	NA

## MAXIMUM DISCHARGE CURRENT FOR VARIOUS DURATION & CUT-OFF VOLTAGE

END VOLTAGE/ CELL	TEMP(C)	DISCHARGE TIME																
		1 min	3min	5min	7min	10min	15min	20min	30min	1 hrs	1.5 hrs	2 hrs	3 hrs	4 hrs	5 hrs	6 hrs	8 hrs	10 hrs
1.80	25	3.9C	3.7C	3.2C	2.8C	2.3C	1.8C	1.5C	1.1C	0.64C	0.42C	0.36C	0.270C	0.210C	0.170C	0.145C	0.110C	0.090C
	5	3.0C	2.5C	2.2C	1.9C	1.75C	1.4C	1.2C	0.95C	0.59C	0.34C	0.29C	0.230C	0.182C	0.147C	0.129C	0.098C	0.080C
	-5	2.4C	2.1C	1.8C	1.6C	1.4C	1.1C	0.96C	0.76C	0.48C	0.28C	0.24C	0.198C	0.154C	0.125C	0.115C	0.087C	0.071C
1.75	25	4.4C	4.0C	3.4C	2.9C	2.4C	1.85C	1.55C	1.12C	0.65C	0.45C	0.38C	0.280C	0.220C	0.180C	0.155C	0.120C	0.098C
	5	3.8C	3.0C	2.5C	2.2C	1.9C	1.5C	1.25C	0.98C	0.61C	0.37C	0.31C	0.24C	0.191C	0.156C	0.136C	0.107C	0.088C
	-5	2.9C	2.5C	2.1C	1.8C	1.6C	1.2C	1.03C	0.81C	0.51C	0.3C	0.26C	0.206C	0.161C	0.132C	0.119C	0.095C	0.079C
1.70	25	5.1C	4.3C	3.6C	3.0C	2.5C	1.9C	1.6C	1.15C	0.67C	0.48C	0.40C	0.290C	0.230C	0.190C	0.165C	0.130C	0.108C
	5	4.6C	3.4C	2.8C	2.4C	2.0C	1.6C	1.3C	1.0C	0.62C	0.39C	0.32C	0.250C	0.199C	0.164C	0.143C	0.116C	0.096C
	-5	3.4C	2.8C	2.3C	2.0C	1.7C	1.3C	1.1C	0.86C	0.53C	0.32C	0.27C	0.213C	0.168C	0.139C	0.123C	0.103C	0.086C
1.65	25	5.9C	4.6C	3.8C	3.2C	2.7C	2.0C	1.65C	1.2C	0.69C	0.50C	0.41C	0.300C	0.240C	0.200C	0.170C	0.135C	0.110C
	5	4.9C	3.6C	2.95C	2.5C	2.1C	1.7C	1.4C	1.05C	0.64C	0.40C	0.33C	0.260C	0.208C	0.173C	0.147C	0.120C	0.098C
	-5	3.9C	2.9	2.4C	2.1C	1.7C	1.35C	1.15C	1.88C	0.54C	0.34C	0.27C	0.220C	0.176C	0.147C	0.125C	0.107C	0.087C
1.60	25	6.7C	4.9C	3.9C	3.3C	2.8C	2.1C	1.7C	1.25C	0.7C	0.51C	0.42C	0.310C	0.250C	0.210C	0.180C	0.140C	0.115C
	5	5.2C	3.8C	3.1C	2.6C	2.2C	1.8C	1.5C	1.10C	0.66C	0.41C	0.34C	0.270C	0.216C	0.182C	0.156C	0.125C	0.102C
	-5	4.4C	3.0C	2.5C	2.2C	1.75C	1.4C	1.2C	0.9C	0.55C	0.34C	0.28C	0.227C	0.183C	0.154C	0.132C	0.111C	0.091C

Note: C represents the C20 rated capacity

