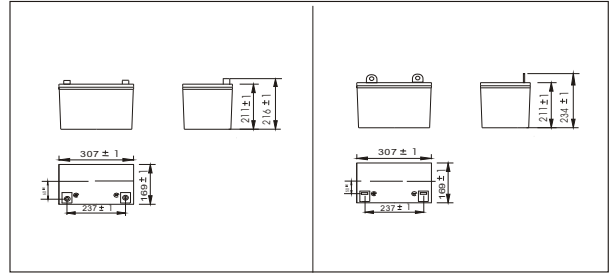




# SWG12850(12V85AH)



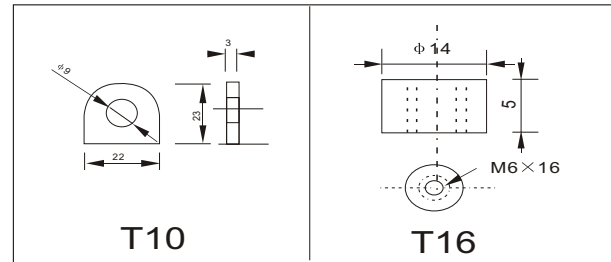
### Outer dimensions (mm)



### Specifications

Nominal Voltage		12V
Rated capacity (20 hour rate)		85 Ah
Dimensions	Total Height	T10 234 mm (9.21 inches)
		T16 216 mm (8.50 inches)
	Height	211 mm (8.30 inches)
	Length	307 mm (12.08 inches)
Width		169mm (6.65 inches)
Weight Approx		29Kg (64.1 lbs)

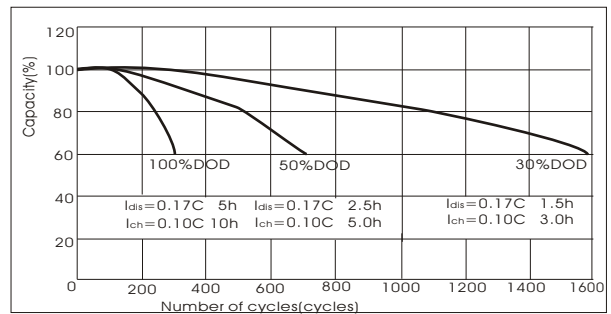
### Terminal Type (mm)



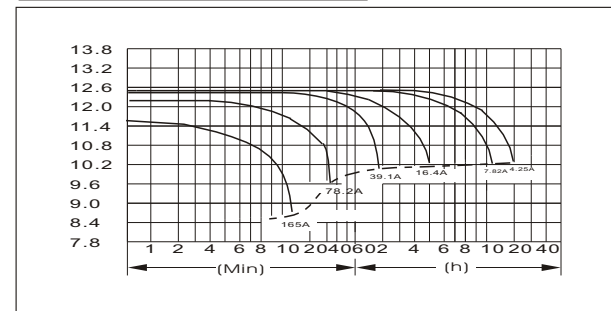
### Characteristics

Capacity 25°C(77°F)	20 hour rate(4.25 A)	85.0 AH
	10 hour rate(7.82 A)	78.2 AH
	5 hour rate(12.5 A)	62.6 AH
	1 hour rate(46.9 A)	46.9 AH
Internal Resistance	Full charged Battery at 25°C(77°F)	Approx 9.5 mΩ
Capacity affected by Temperature (10hour rate)	40°C(104°F)	102%
	25°C(77°F)	100%
	0°C(32°F)	85%
	-15°C(5°F)	65%
Self-Discharge at 25°C(77°F)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Terminal		T10 T16
Charge (constant Voltage)	Cycle	Initial Charging Current less than 31 A Voltage 14.10-14.40V
	Float	Voltage 13.50-13.80V

### Curves of cycle life(25°C)



### Discharge Curves 25°C (77°F)



### Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

Time		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	250	165	133	89	47	27	20.1	15.6	12.9	9.1	8.2	4.4
	W	2585	1762	1426	959	507	301	223.7	176.0	146.7	104.9	94.8	51.6
10.20V	A	243	149	125	85	44	26	19.6	15.2	12.7	8.9	8.1	4.3
	W	2591	1663	1402	957	499	301	226.4	177.3	147.7	104.3	94.6	50.5
10.50V	A	235	133	110	80	43	25	19.1	15.0	12.5	8.8	7.9	4.3
	W	2563	1515	1250	918	494	296	222.3	175.7	146.7	103.9	93.5	50.8
10.80V	A	226	126	102	74	41	25	18.6	14.8	12.2	8.6	7.8	4.2
	W	2537	1447	1173	852	481	291	219.4	174.5	144.2	101.9	92.9	50.3
11.10V	A	219	118	94	66	40	24	18.0	14.4	11.9	8.4	7.4	4.0
	W	2479	1362	1094	769	469	287	213.7	171.4	141.9	100.2	89.7	48.3