

### Specifications

#### Nominal Voltage(V)

12V

#### Nominal Capacity

20 hour rate	(2A	to	10.50V)	40Ah
10 hour rate	(3.8A	to	10.50V)	38Ah
5 hour rate	(6.8A	to	10.20V)	34Ah
1 C	(40A	to	9.60V)	22.67Ah
3 C	(120A	to	9.60V)	16Ah

#### Weight

Approx. 13.4kg(29.5Lbs.)

#### Internal Resistance (at 1KHz)

Approx. 7.5 mΩ

#### Maximum Discharge Current for

5 seconds: 480A

#### Charging Methods at 25°C(77°F)

Cycle use:	
Charging Voltage	14.4 to 15.0V
Coefficient	-5.0mV/°C/cell
Maximum Charging Current :	12A
Standby use:	
Float Charging Voltage	13.5 to 13.8V
Coefficient	-3.0mV/°C/cell

#### Operating Temperature Range

Charge	-15°C(5°F)	to	40°C(104°F)
Discharge	-15°C(5°F)	to	50°C(122°F)
Storage	-15°C(5°F)	to	40°C(104°F)

#### Charge Retention (shelf life) at 20°C(68°F)

1 month	97%
3 month	92%
6 month	85%

#### Case Material

ABS UL94 HB  
Option: Flammability resistance of (UL94 V-0)

#### Design Life

EUROBAT(20°C): 3-5 YEARS STANDARD COMMERCIAL

#### Terminal

F4



### Dimensions

#### Length (L)

$198 \pm_{-1}^{+2}$  (7.80  $\pm_{-0.04}^{+0.08}$ )

#### Width (W)

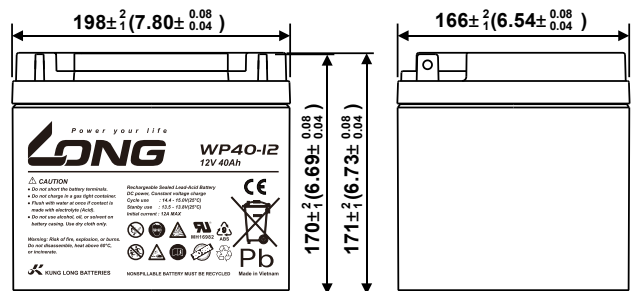
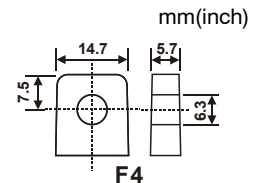
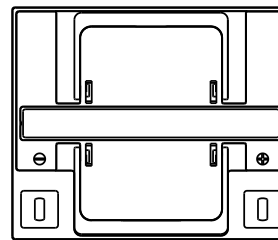
$166 \pm_{-1}^{+2}$  (6.54  $\pm_{-0.04}^{+0.08}$ )

#### Height (H)

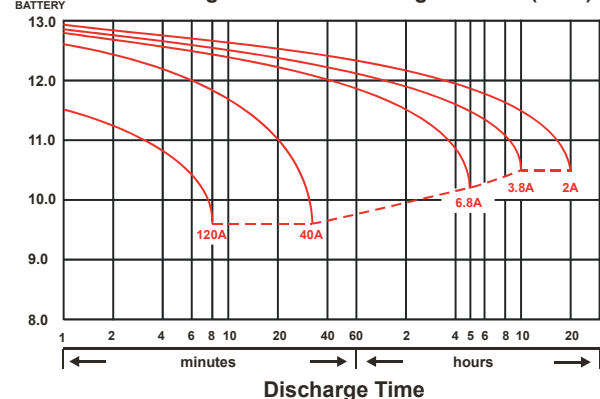
$171 \pm_{-1}^{+2}$  (6.73  $\pm_{-0.04}^{+0.08}$ )

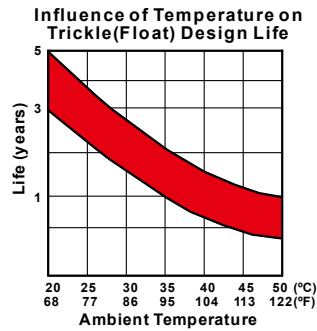
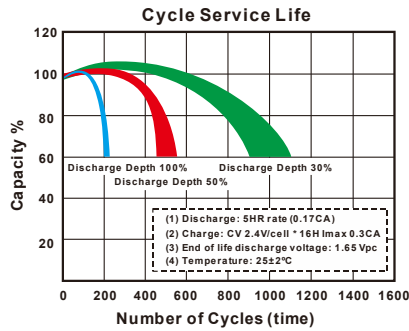
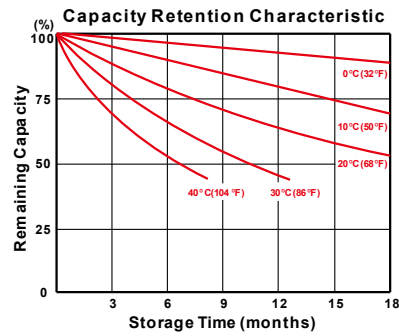
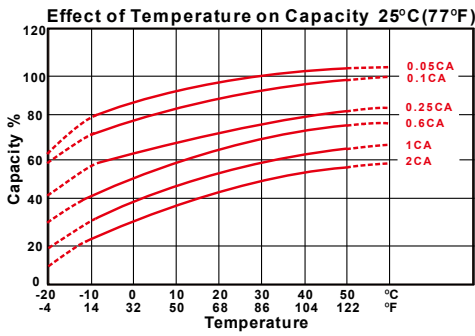
#### Overall Height (HT)

$171 \pm_{-1}^{+2}$  (6.73  $\pm_{-0.04}^{+0.08}$ )



(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)





### - PERFORMANCE DATA

#### Discharge Rates in Watts to Various End Voltages at 25°C(77°F)

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
		5 min	205	230	255	265	270	275
10 min	155	170	180	190	194	197	200	
15 min	130	136	142	146	148	149	150	
30 min	81.5	84.5	87.0	89.5	90.5	91.0	91.5	
60 min	49.5	50.2	50.9	51.2	51.4	51.5	51.5	
120 min	27.7	28.8	29.7	30.2	30.5	30.8	31.0	
180 min	20.5	21.0	21.5	21.6	21.6	21.7	21.8	
240 min	16.1	16.6	17.0	17.4	17.6	17.8	18.0	
300 min	13.6	13.9	14.2	14.4	14.6	14.7	14.8	
480 min	9.47	9.56	9.64	9.69	9.72	9.75	9.78	
600 min	7.50	7.75	7.95	7.97	7.98	7.99	7.99	
1200 min	4.10	4.20	4.30	4.35	4.38	4.40	4.41	

#### - Discharge Rates in Amperes to Various End Voltages at 25°C(77°F)

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
		5 min	110	125	140	145	150	153
10 min	83.0	91.8	99.5	103	104	105	105	
15 min	68.5	74.7	80.5	82.0	82.5	82.5	83.0	
30 min	41.5	43.6	45.5	46.2	46.6	46.8	47.0	
60 min	24.1	24.8	25.5	26.0	26.2	26.3	26.4	
120 min	14.9	15.3	15.6	15.8	15.8	15.9	16.0	
180 min	10.5	10.9	11.2	11.4	11.5	11.6	11.7	
240 min	8.64	8.85	9.05	9.16	9.18	9.19	9.20	
300 min	7.00	7.20	7.35	7.37	7.38	7.39	7.40	
480 min	4.70	4.79	4.88	4.90	4.92	4.94	4.95	
600 min	3.89	3.95	4.00	4.04	4.06	4.08	4.10	
1200 min	2.00	2.07	2.15	2.17	2.18	2.19	2.20	

All data on the spec. sheet is an average value:

The tolerance range : X<6min(+15%~-15%), 6min≤X<10min(+12%~-12%), 10min≤X<60min(+8%~-8%), X≥60min(+5%~-5%)

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