



# GPL series GPL 12650



## Valve Regulated Lead Acid Battery

Maintenance-Free Sealed Lead Acid Battery.  
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

### General Design for Standby Power Applications

#### 【Design Life】

Up to 10 Years in Standby Service at 25°C  
Eurobat (20°C) : >12 YEARS VERY LONG LIFE

#### 【Operating Temperature Range】

Nominal Operating Temperature : 25°C (77°F)  
Discharge : -15°C ~ 50°C (5°F~122°F)  
Charge : -15°C ~ 40°C (5°F~104°F)  
Storage : -15°C ~ 40°C (5°F~104°F)

#### 【Float Charging Voltage】

13.5 ~ 13.8 VDC/Unit at 25°C (77°F)

#### 【Equalization Charging Voltage】

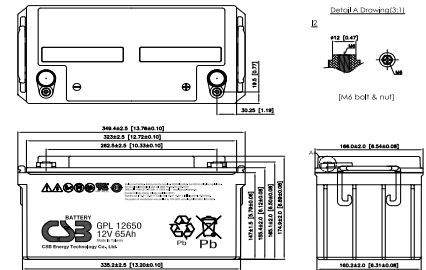
14.4 ~ 15.0 VDC/Unit at 25°C (77°F)

#### 【Self Discharge】

Less than 10% after 90 days, can be stored up to 6 months at 25°C (77°F);  
Fully recharging is required before usage, and charged sooner if stored at higher temperature than 25°C (77°F).

### Specification Design according with IEC 60896-21/22:2004

Nominal Voltage	12V (6 cells per unit)	
Nominal Capacity	65 Ah @20hr-rate to 1.75V per cell @25°C (77°F)	
Weight	Approx. 20.8 Kg (45.9 lbs)	
Maximum Discharge Current	500A (5sec)	
Internal Resistance	Approx. 5.3 mΩ	
Short Circuit Current	1637 A	
Maximum Charge Current	19.5 A	
Terminal types	I2 thread lead alloy terminal to accept M6 bolt	
Terminal tightening torque	51.7±10.3 Kgf·cm / 44.9±9.0 Lbf·in / 5.10±1.0 N·m	
Container Material	PP (UL 94-HB) & Flame Retardant (94-V0) available upon request	
Dimensions	Length (L)	349.4±2.5 mm      13.76±0.1 inch
	Width (W)	166.0±2 mm      6.54±0.08 inch
	Container Height (h)	174.9±2 mm      6.89±0.08 inch
	Overall Height (H)	174.9±2 mm      6.89±0.08 inch



#### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	253	173	130	77.7	45.1	32.8	26.0	18.7	12.2	8.11	6.67	3.59
1.67V	231	163	127	76.8	44.7	32.6	25.8	18.6	12.1	8.05	6.62	3.57
1.70V	222	157	124	76.0	44.4	32.5	25.7	18.5	12.0	8.02	6.60	3.55
1.75V	200	146	118	73.9	43.7	32.2	25.5	18.4	11.9	7.95	6.54	3.52
1.80V	173	133	107	70.2	42.3	31.4	25.0	18.0	11.7	7.80	6.41	3.45
1.85V	143	116	93.4	64.7	39.6	29.8	23.7	17.3	11.2	7.48	6.16	3.32

#### Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	2573	1800	1420	877	516	379	300	217	143	95.0	78.2	42.7
1.67V	2392	1731	1384	868	513	378	299	216	142	94.6	77.9	42.5
1.70V	2303	1689	1357	861	511	377	299	215	142	94.4	77.7	42.4
1.75V	2093	1604	1291	841	504	374	296	214	141	93.6	77.0	42.0
1.80V	1856	1497	1192	807	490	366	291	210	138	92.0	75.7	41.3
1.85V	1602	1290	1058	751	463	349	278	202	133	88.6	73.0	39.9

Please refer to the official site for the latest rating confirmation. URL: [www.csb-battery.com](http://www.csb-battery.com)

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Recognized under UL 1989,  
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