IEEE/UL Battery Sizing by MooreU 610-952-6067 www.mooreu.com

GPL Series

GPL 12650 Datasheet

12V Top Terminal VRLA-AGM

Specifications

Voltage (Vdc)	12
Nominal Capacity (1.75 VPC @25°C)	65 Ah @20hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	63.60
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	70.40
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	62.40
Max Charge Current (A)	19.50
Max Discharge Current (A)	500
Short Circuit Current (A)	1637
Internal Resistance (mΩ)	Approx. 5.3
Terminal Type	I2 thread lead alloy terminal to accept M6 bolt
Terminal 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
Weight (kg. / lb., Approx.)	20.8 / 45.9
Length (L) (mm / in)	349.4±2.5 / 13.76±0.1
Width (W) (mm / in)	166.0±2.0 / 6.54±0.08
Height (H) (mm / in)	174.9±2.0 / 6.89±0.08
Design Life	Up to 10 Years in Standby Service at 25°C Eurobat (20°C): >12 Years Very Long Life
Operating Temperature	Nominal: 25°C (77°F) Discharge: -15°C - 50°C (5°F-122°F) Charge/Storage: -15°C - 40°C (5°F – 104°F)
Float Charging Voltage	13.5 - 13.8 Vdc/battery 25°C (77°F)
Eq. Charging Voltage	14.4 - 15.0 Vdc/battery 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).

Valve Regulated Lead Acid (VRLA) Battery

Maintenance-Free, Absorbent Glass Mat (AGM) Technology for Efficient Gas Recombination of up to 99%

Pure Lead Construction and Proprietary Elements

Designed for Float Service Standby Power Applications

Built in Accordance with IEC 60896-21/22:2004 and UL1989 Recognized (MH14533)

MH14533

11F, No. 150, Sec. 4, Chengde Rd., Shilin Dist., Taipei City 111052, Taiwan (R.O.C.)
Tel: +886-2-2880-5600 Mail: service@csb-battery.com.tw

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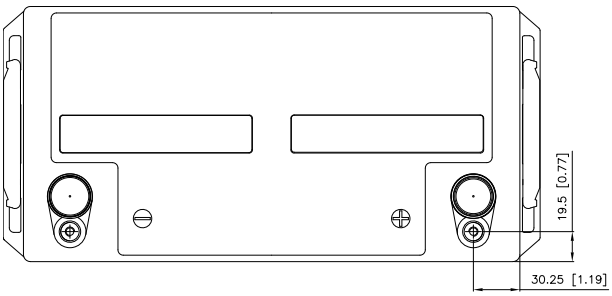
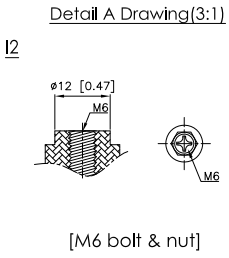
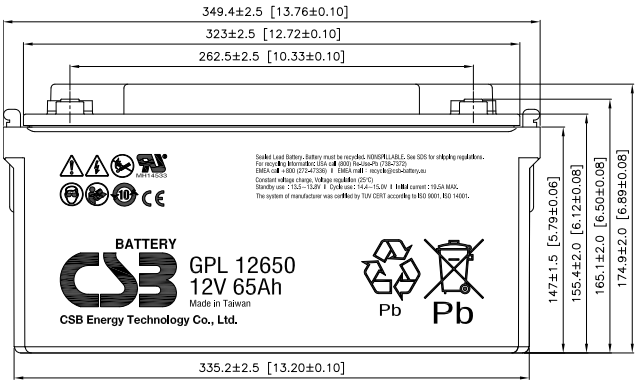
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)												
F.V/Time	**5MIN**	**10MIN**	**15MIN**	**30MIN**	**60MIN**	**90MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
10.02V (1.67 VPC)	231	163	127	76.8	44.7	32.6	25.8	18.6	12.1	8.05	6.62	3.57
10.50V (1.75 VPC)	200	146	118	73.9	43.7	32.2	25.5	18.4	11.9	7.95	6.54	3.52
10.80V (1.80 VPC)	173	133	107	70.2	42.3	31.4	25.0	18.0	11.7	7.80	6.41	3.45

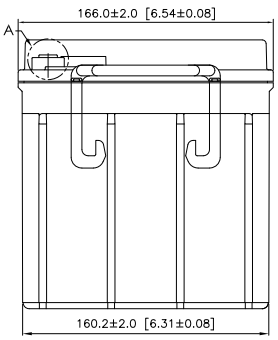
Constant Power Discharge Characteristics Unit: W (25°C, 77°F)												
F.V/Time	**5MIN**	**10MIN**	**15MIN**	**30MIN**	**60MIN**	**90MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
10.02V (1.67 VPC)	2392	1731	1384	868	513	378	299	216	142	94.6	77.9	42.5
10.50V (1.75 VPC)	2093	1604	1291	841	504	374	296	214	141	93.6	77.0	42.0
10.80V (1.80 VPC)	1856	1497	1192	807	490	366	291	210	138	92.0	75.7	41.3





[M6 bolt & nut]





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