



GPL Series

GPL12850 Datasheet

12V Top Terminal VRLA-AGM

Specifications

Voltage (Vdc)	12
Nominal Capacity (1.75 VPC @ 25°C)	85 Ah @ 20hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	75.7
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	84.1
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	74.3
Max Charge Current (A)	25.5
Max Discharge Current (A)	800(5sec)
Short Circuit Current (A)	1835
Internal Resistance	Approx. 5.0 mΩ
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.)	24.6 / 54.2
Length (L) (mm / in)	261.0±2.5 / 10.28±0.10
Width (W) (mm / in)	168.5±2.0 / 6.63±0.08
Height (H) (mm / in)	213.5±2.5 / 8.41±0.10
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 and 10 months with equalization charge* at 25C (77F); Full recharging is required before usage, and charged sooner if stored at higher temperature than 25C (77F).



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)





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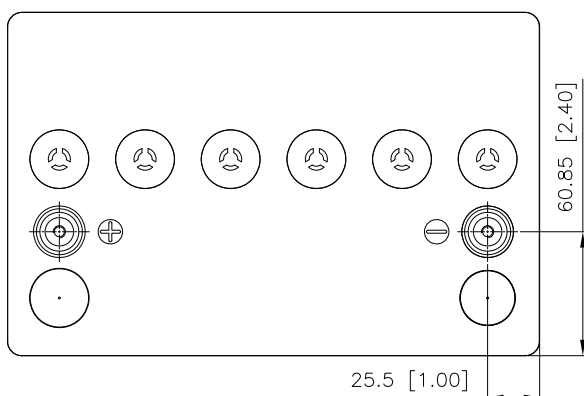
12V Top Terminal VRLA-AGM

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)	258	183	150	89.8	52.9	38.2	30.3	21.8	14.2	9.57	7.94	4.25
10.50V (1.75 VPC)	206	163	139	84.8	51.8	37.5	29.8	21.5	14.0	9.46	7.85	4.20
10.80V (1.80 VPC)	168	150	125	79.4	50.3	36.5	29.0	21.0	13.7	9.29	7.71	4.13

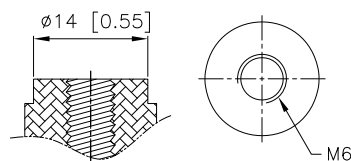
Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
10.02V (1.67 VPC)	2,678	1,955	1,627	1,019	635	458	359	255	167	113	94.3	50.5
10.50V (1.75 VPC)	2,274	1,793	1,518	973	624	452	354	252	165	112	93.4	50.0
10.80V (1.80 VPC)	1,980	1,677	1,396	922	609	440	347	248	163	110	91.9	49.3



Detail A Drawing(3:1)

12



[M6 bolt]

