



GPL Series

GPL12400 Datasheet

12V Top Terminal VRLA-AGM



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 61056-1/2:2012, UL1973 Listed (MH66728) and UL1989 Recognized (MH14533)

Certified by TUV NORD according to ISO 9001:2015



Specifications

Voltage (Vdc)	12
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	40.32
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	44.40
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	39.60
Max Charge Current (A)	12.00
Max Discharge Current (A)	400 (5sec)
Short Circuit Current (A)	1182
Internal Resistance	Approx. 8.5 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	ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request
Weight (kg. / lb., Approx.)	12.92 / 28.48
Length (L) (mm / in)	197.0±2.0 / 7.76±0.08
Width (W) (mm / in)	165.0±2.0 / 6.50±0.08
Height (H) (mm / in)	170.4±2.0 / 6.71±0.08
Design Life	Up to 10 Years in Standby Service at 25°C. Eurobat (20°C): 10/12 Years 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).



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Constant Current Discharge Characteristics Per Battery: Amperes (25°C, 77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
10.02V (1.67 VPC)	153	107	82.0	48.5	28.4	20.7	16.4	11.8	7.65	5.09	4.18	2.24
10.50V (1.75 VPC)	130	96.2	77.5	46.9	27.8	20.5	16.2	11.6	7.56	5.04	4.14	2.22
10.80V (1.80 VPC)	117	87.3	71.0	44.8	27.0	20.0	15.9	11.4	7.41	4.95	4.06	2.18

Constant Power Discharge Characteristics Per Battery: Watts (25°C, 77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
10.02V (1.67 VPC)	1552	1122	888	544	324	239	190	137	90.8	60.6	49.8	26.7
10.50V (1.75 VPC)	1404	1038	837	530	319	237	188	135	90.0	60.1	49.4	26.5
10.80V (1.80 VPC)	1226	967	776	511	311	233	185	134	88.5	59.1	48.5	26.1

