



GP Series

GP645 Datasheet

6V 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

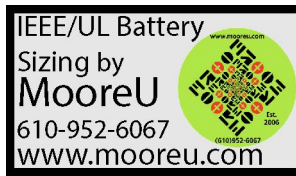
Designed for Float Service Standby Power Applications

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



Specifications

Voltage (Vdc)	6
Nominal Capacity	4.5 Ah @20hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	4.24
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	4.58
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	4.18
Max Charge Current (A)	1.35
Max Discharge Current (A)	60(F1) / 90(F2) (5 sec)
Short Circuit Current (A)	151 (5 sec)
Internal Resistance (mΩ)	Approx. 18.5
Terminal Type	F1 - 90° Terminal -Faston Tab 187 F2 - Terminal -Faston Tab 250
Terminal Torque	--
Container Material	ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request.
Weight (kg. / lb.)	0.87 / 1.92
Length (L) (mm / in)	70.0±1.0 / 2.76±0.04
Width (W) (mm / in)	48.0±1.0 / 1.89±0.04
Height (H) (mm / in)	106.6±1.5 / 4.20±0.06 (F1 Terminal) 107.5±1.5 / 4.23±0.06 (F2 Terminal)
Design Life	Up to 5 Years in Standby Service at 25°C ; Eurobat (20°C): 3-5 Years Standard Commercial Nominal: 25°C (77°F)
Operating Temperature	Discharge: -15°C - 50°C (5°F-122°F) Charge/Storage: -15°C - 40°C (5°F - 104°F)
Float Charging Voltage	6.75 - 6.90 Vdc/battery 25°C (77°F)
Eq. Charging Voltage	7.20 - 7.50 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 Unit: A (25°C, 77°F)												
F.V/Time	5 MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
10.02V (1.67VPC)	17.2	11.2	8.51	4.99	2.87	2.07	1.65	1.20	0.792	0.533	0.438	0.233
10.50V (1.75VPC)	15.4	10.5	8.22	4.91	2.84	2.05	1.63	1.18	0.785	0.531	0.435	0.229
10.80V (1.80VPC)	13.8	9.82	7.78	4.77	2.79	2.03	1.62	1.17	0.775	0.523	0.431	0.225

Constant Power Discharge Characteristics Unit: W (25°C, 77°F)												
F.V/Time	5 MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
10.02V (1.67VPC)	91.0	61.2	46.8	28.4	16.6	12.0	9.67	7.03	4.69	3.18	2.65	1.33
10.50V (1.75VPC)	83.8	58.4	45.4	28.0	16.4	11.8	9.61	6.99	4.66	3.16	2.63	1.31
10.80V (1.80VPC)	77.6	55.1	43.3	27.4	16.3	11.7	9.49	6.92	4.61	3.14	2.61	1.30

