



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)	12
Nominal Capacity (1.80 VPC @25°C)	40 Ah @10hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	40.64
Ah Capacity (20-Hr 1.75 VPC @ 25°)	45.20
Ah Capacity (8-Hr 1.80 VPC @ 25°)	40.08
Max Charge Current (A)	12.0
Max Discharge Current (A)	400
Short Circuit Current (A)	1256
Internal Resistance (mΩ)	Approx. 6.70
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 / 5.1±1.0 N·m
Container Material	Flame Retardant ABS (UL 94-V0)
Weight (kg. / lb.)	15.0 / 33.06
Length (L) (mm / in)	280.0±2.5 / 11.02±0.09
Width (W) (mm / in)	105.0±1.5 / 4.13±0.05
Height (H) (mm / in)	195.0±2.0 / 7.67±0.07
Design Life	Up to 12 Years in Standby Service at 25°C, Eurobat (20°C): >12 Years Very Long Life 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	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).

Constant Current Discharge Characteristics Unit: A (25°C, 77°F)												
F.V/Time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
10.02V (1.67VPC)	86.1	50.9	29.3	21.1	16.7	11.9	9.36	7.71	6.59	5.14	4.23	2.28
10.50V (1.75VPC)	82.4	49.6	28.9	20.9	16.5	11.8	9.26	7.63	6.52	5.08	4.19	2.26
10.80V (1.80VPC)	78.3	47.8	28.3	20.6	16.3	11.6	9.14	7.53	6.43	5.01	4.13	2.23

Constant Power Discharge Characteristics Unit: W (25°C, 77°F)												
F.V/Time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
10.02V (1.67VPC)	951	572	338	248	197	142	113	94.2	80.2	62.2	51.0	27.3
10.50V (1.75VPC)	915	560	335	246	196	141	112	93.6	79.7	61.8	50.7	27.1
10.80V (1.80VPC)	865	543	329	243	194	140	111	92.5	78.7	61.0	50.1	26.8

Detail A Drawing(4:1)

