



MICROLYTE 6/12 MP SERIES

Sealed Maintenance Free Rechargeable Battery

The SEC Microlyte MP series of VRLA AGM monoblocs is a classic top terminal range, designed for when a cost effective but reliable solution is required. It has been engineered with lead calcium plates to offer competitive battery solutions combining superior gas recombination technology and great energy density. Reliable, versatile and maintenance free – it is difficult to beat!

DESIGN LIFE

8 Years in Float Service at 25°C
200 Cycles @ 80% DoD at 25°C

MANUFACTURED TO

BS 6290 Part 4 (with V0 option)
IEC 60896-21/22-2004
Eurobat
UL Component approval
ISO 9001:2008
ISO 14001:2004

DESIGN SPECIFICATIONS

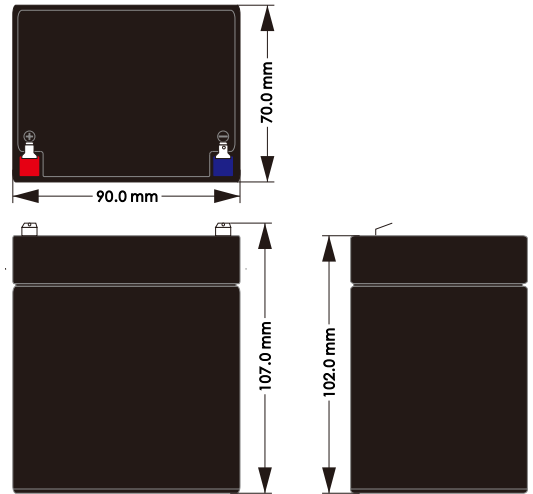
Float charge voltage
Cyclic charge voltage
Terminal

2.25-2.30 vpc ±1% at 25°C
2.40-2.50 vpc ±1% at 25°C
St1

CHARACTERISTICS

Model		SEC-12-MP-5.0
Nominal voltage		12 Volt
Nominal Capacity C/10 at 25°C		4.80 Ah
Capacity	20hr	5.00 Ah to 1.75 vpc
	10hr	4.80 Ah to 1.75 vpc
	5hr	4.24 Ah to 1.75 vpc
	3hr	3.73 Ah to 1.75 vpc
	1hr	3.03 Ah to 1.75 vpc
Maximum charging current		0.86 Amp
Max. discharge current in 5 sec.		75.0 Amp
Internal resistance		50~65 mΩ*
Charging voltage	Standby use	13.5 - 13.8 VDC at 25°C
	Cyclic use	14.4 - 15.0 VDC at 25°C
Battery dimension	Length	90.0 mm
	Width	70.0 mm
	Overall height	107 mm
	Weight	1.55 kg

Actual Battery dimensions may be +/- 5% of the number shown
* For QQC standard

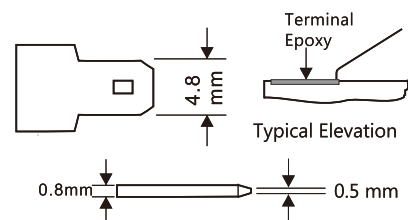


SEC 12-MP-5.0

APPLICATIONS

UPS Systems/ Telecommunication PABX/
Emergency Lighting/ Fire & Security
Alarms System/ Portable VTR/TV / Power
Tools/ Computer/ Fans/ Electronics
torch/ Window washer

TERMINAL TYPE (ST1)



Current

Amps at 25°C

SEC bloc type	Discharge amps at 25°C																	
	End volts /Cell	Discharge time in minutes						End Volts /Cell	Discharge time in hours									
		5min	10min	15min	20min	30min	45min		1hr	1.5hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
12-MP-5.0	1.80	15.6	10.0	8.17	6.81	4.73	3.33	1.85	2.76	2.17	1.61	1.15	0.92	0.78	0.66	0.51	0.44	0.24
	1.75	16.9	10.6	8.68	7.05	4.91	3.43	1.80	2.96	2.21	1.68	1.21	0.97	0.82	0.69	0.53	0.46	0.24
	1.67	17.6	11.1	8.97	7.32	5.06	3.55	1.75	3.03	2.24	1.71	1.24	1.00	0.85	0.71	0.55	0.48	0.25

Power

Watts/cell at 25°C

SEC bloc type	Discharge watts/cell at 25°C																	
	End volts /Cell	Discharge time in minutes						End Volts /Cell	Discharge time in hours									
		5min	10min	15min	20min	30min	45min		1hr	1.5hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
12-MP-5.0	1.80	29.6	17.1	14.2	12.2	8.40	6.24	1.85	5.43	4.11	3.08	2.18	1.85	1.62	1.32	1.02	0.87	0.47
	1.75	31.4	18.9	15.5	12.9	8.96	6.46	1.80	5.54	4.17	3.19	2.26	1.90	1.63	1.37	1.05	0.91	0.48
	1.67	32.8	20.0	15.7	13.3	9.11	6.49	1.75	5.65	4.23	3.25	2.38	1.92	1.65	1.39	1.08	0.95	0.49

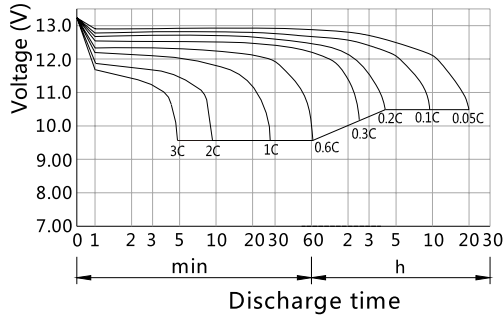
Actual Battery Discharge data may be +/- 5% of the number shown



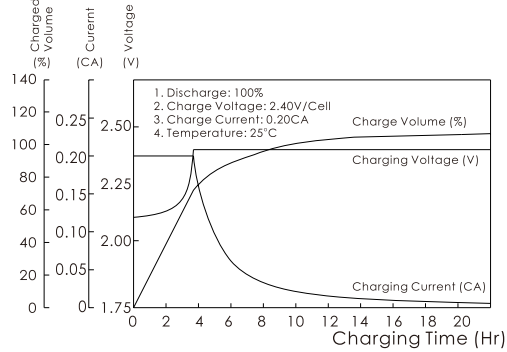
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SEC 12-MP-5.0

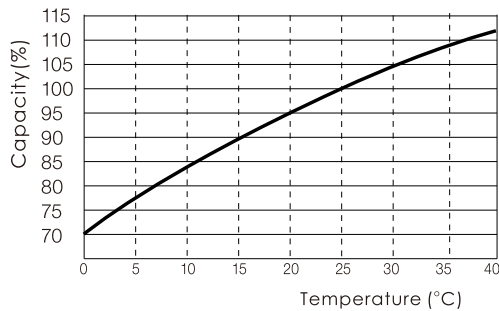
DISCHARGE CHARACTERISTICS (25C)



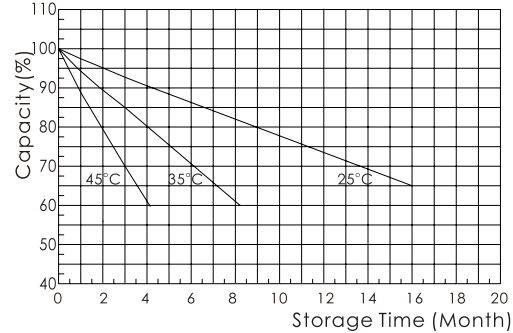
CHARGING CHARACTERISTICS (25C)



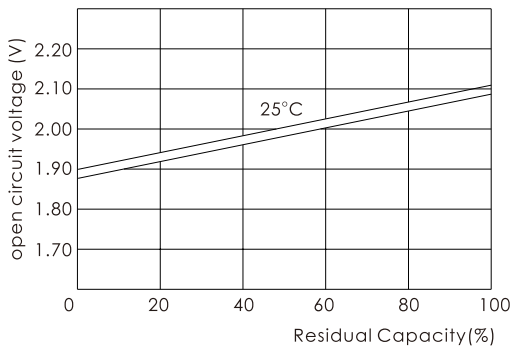
EFFECT OF TEMPERATURE ON CAPACITY



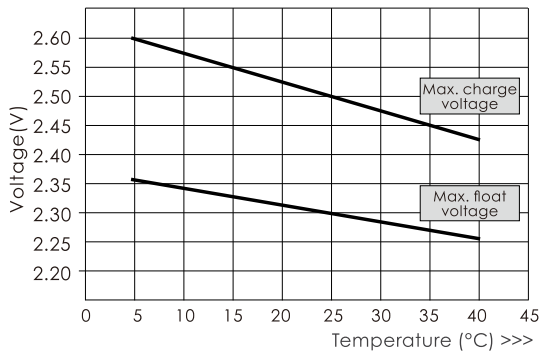
SELF-DISCHARGE CHARACTERISTICS



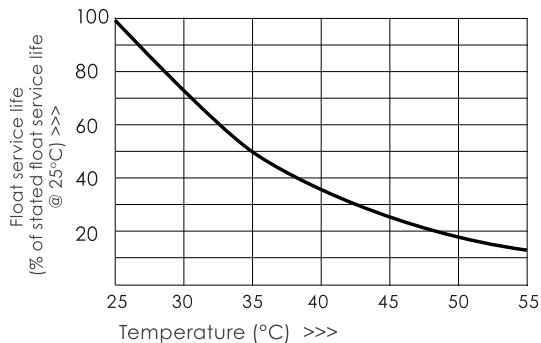
THE RELATIONSHIP FOR OPEN CIRCUIT VOLTAGE AND RESIDUAL CAPACITY (25C)



THE RELATIONSHIP FOR CHARGING VOLTAGE AND TEMPERATURE



FLOATING LIFE ON TEMPERATURE



CYCLE LIFE ON D.O.D. (25C)

