

# MICROLYTE 6/12 MP SERIES

## Sealed Maintenance Free Rechargeable Battery

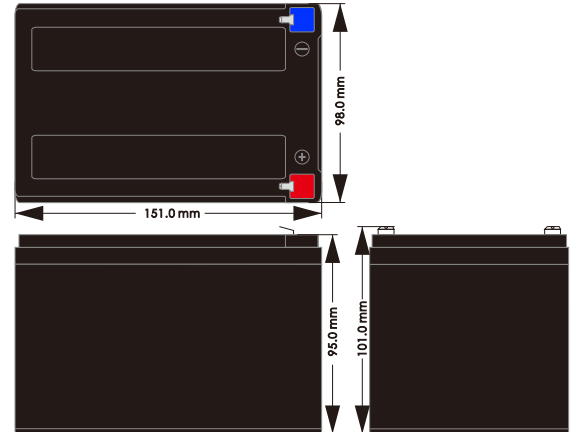


The SEC Microlyte MP series of VRLA AGM monoblocs is a classic top terminal range, designed for when a cost effective but reliable solution is required. It has been engineered with lead calcium plates to offer competitive battery solutions combining superior gas recombination technology and great energy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



**SEC 12-MP-12**

G 116070



### 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 / VdS  
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  
St2

### CHARACTERISTICS

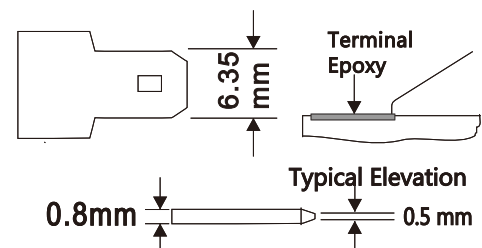
<b>Model</b>		SEC-12-MP-12
<b>Nominal voltage</b>		12 Volt
<b>Nominal Capacity C/10 at 25°C</b>		11.0Ah
<b>Capacity</b>	<b>20hr</b>	12.0 Ah to 1.75 vpc
	<b>10hr</b>	11.0 Ah to 1.75 vpc
	<b>5hr</b>	10.5 Ah to 1.75 vpc
	<b>3hr</b>	9.09 Ah to 1.75 vpc
	<b>1hr</b>	7.00 Ah to 1.75 vpc
<b>Maximum charging current</b>		2.1 Amp
<b>Max. discharge current in 5 sec.</b>		180 Amp
<b>Internal resistance</b>		25 ~45 mΩ*
<b>Charging voltage</b>	<b>Standby use</b>	13.5 - 13.8 VDC at 25°C
	<b>Cyclic use</b>	14.4 - 15.0 VDC at 25°C
<b>Battery dimension</b>	<b>Length</b>	151 mm
	<b>Width</b>	98.0 mm
	<b>Overall height</b>	101 mm
	<b>Weight</b>	3.40kg

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

### APPLICATIONS

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

### TERMINAL TYPE (ST2)



### 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-12	1.80	35.1	22.2	17.5	15.5	11.4	8.90	1.85	6.63	4.96	4.03	2.76	2.21	1.88	1.66	1.21	1.05	0.56
	1.75	37.2	23.5	18.3	16.3	11.8	9.12	1.80	6.82	5.12	4.14	2.91	2.33	1.98	1.72	1.28	1.09	0.59
	1.67	38.9	25.2	19.3	16.9	12.2	9.24	1.75	7.00	5.41	4.23	3.03	2.53	2.10	1.81	1.33	1.10	0.60

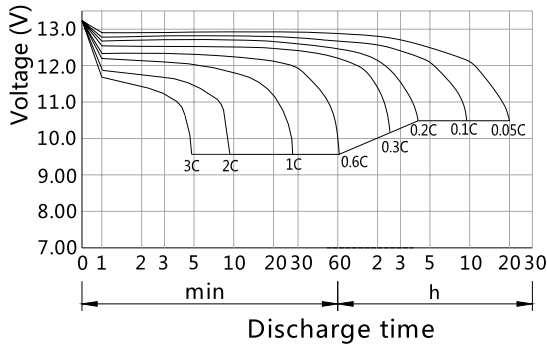
### Power

Watts/cell at 25°C

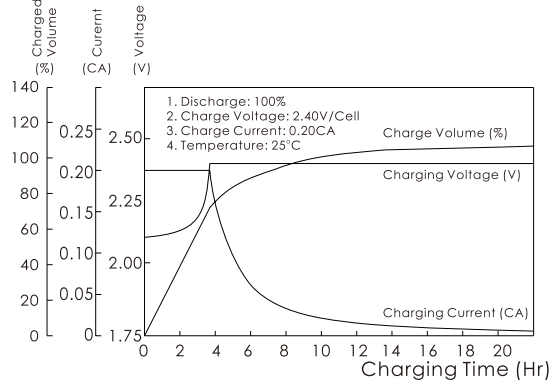
SEC bloc type	Discharge watts/cell at 25°C																	
	End volts /Cell	Discharge time in minutes						End Volts /Cell	Discharge time in hours									
		5min	10min	15min	20min	30min	45min		1hr	1.5hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
12-MP-12	1.80	69.2	44.2	31.4	28.5	20.6	15.7	1.85	12.6	9.62	7.53	5.46	4.38	3.94	3.43	2.43	2.05	1.10
	1.75	72.3	47.4	34.2	29.5	21.4	16.2	1.80	12.9	9.92	7.86	5.76	4.62	4.06	3.46	2.56	2.10	1.13
	1.67	74.2	47.6	33.8	30.3	22.0	16.9	1.75	13.1	10.2	8.03	5.81	4.88	4.08	3.53	2.61	2.16	1.18

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

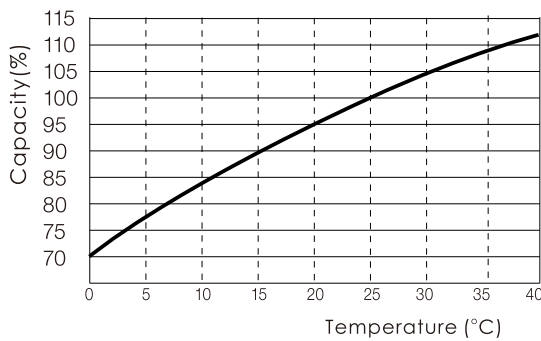
### DISCHARGE CHARACTERISTICS (25C)



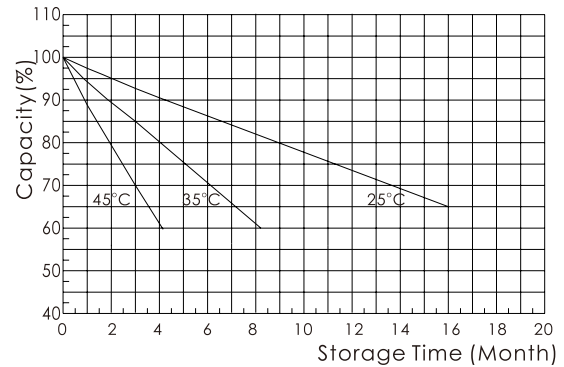
### CHARGING CHARACTERISTICS (25C)



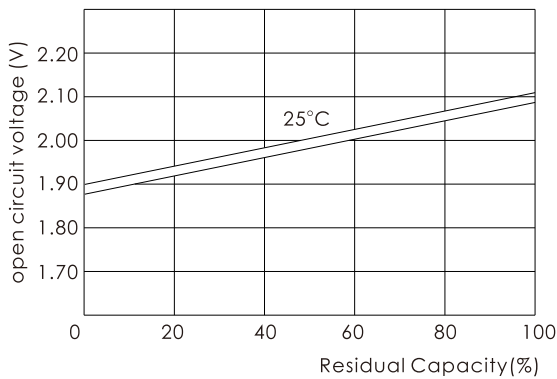
### EFFECT OF TEMPERATURE ON CAPACITY



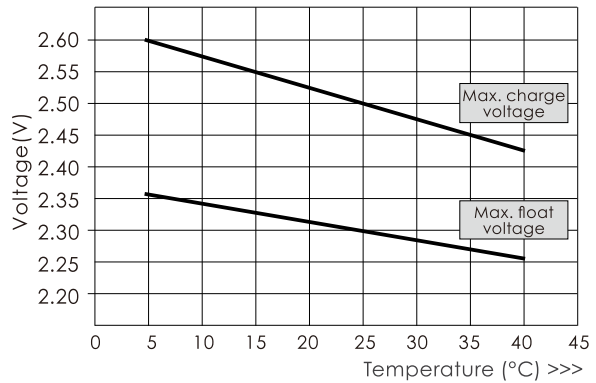
### SELF-DISCHARGE CHARACTERISTICS



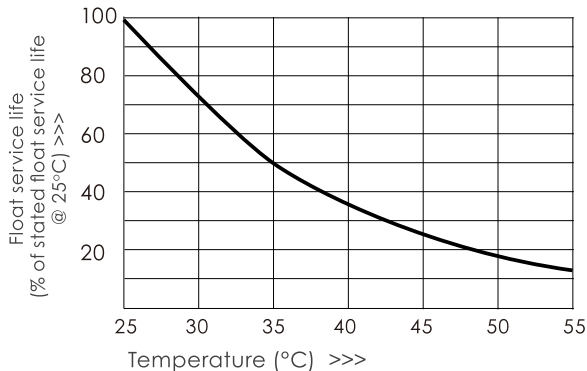
### THE RELATIONSHIP FOR OPEN CIRCUIT VOLTAGE AND RESIDUAL CAPACITY (25C)



### THE RELATIONSHIP FOR CHARGING VOLTAGE AND TEMPERATURE



### FLOATING LIFE ON TEMPERATURE



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

