

# SBL 55-12i (12V 55Ah)

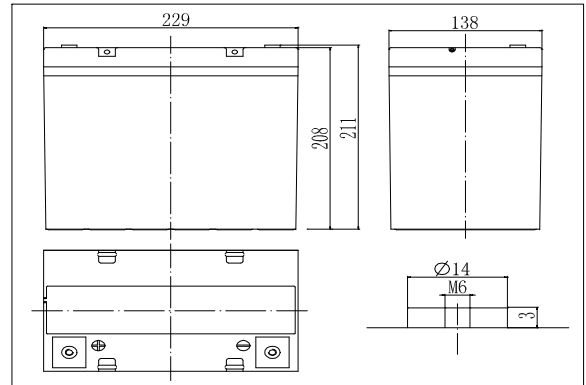
High Performance battery with 10-12 years design life (EUROBAT)

Status: 01-2014

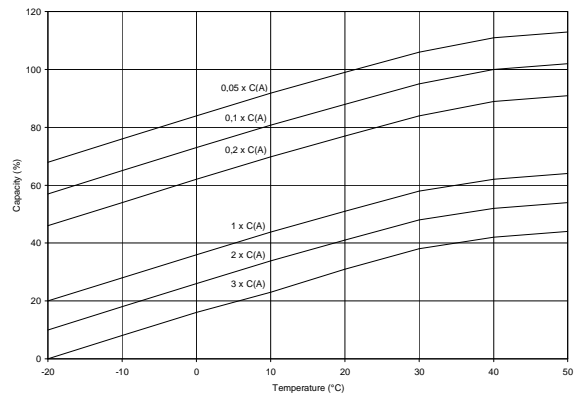
## Specifications

Nominal Voltage		12V
Capacity (10hr@25°C@1.75V/C)		57.5Ah
Dimensions	Length	229mm (9.02inch)
	Width	138mm (5.43inch)
	Height	208mm (8.19inch)
	Total Height	211mm (8.31inch)
Approx. Weight		18.0kg (39.68lbs)
Maximum charging current		16.5A
Maximum discharge current		550A (5sec.)
Internal resistance (Fully charged, 25°C)		Approx. 5.8mΩ
Capacity affected by temperature (10hr)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25°C (77°F)
Operating temperature range		-15°C ~ 50°C (5°F ~ 122°F)
Float charging voltage (25°C)		13.65 to 13.80V
Cyclic charging voltage (25°C)		14.50 to 14.90V
Absorbent glass mat technology		
ABS (UL94-HB) container		<b>Recognized by UL &amp; CE</b>

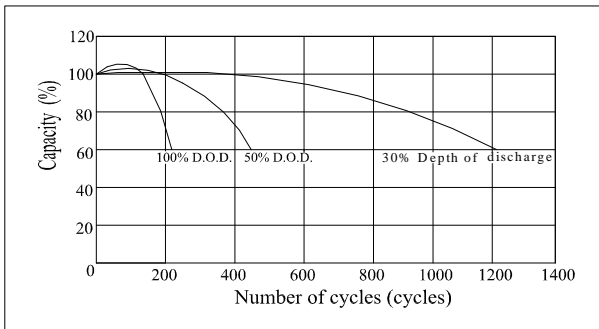
## Dimensions



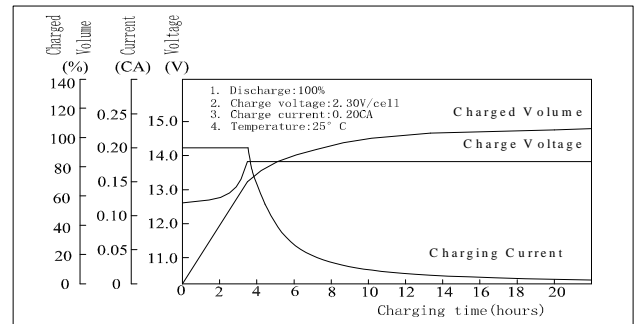
## Temperature Effects in Relation to Battery Capacity



## Cycle Life (25°C)



## Charging Characteristics (25°C)



## Constant Current Discharge Characteristics (Ampere per Battery, 25°C)

F.V./TIME	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	139,58	101,56	62,46	34,51	20,30	14,58	12,25	10,03	7,03	5,99	3,16
9.90V	135,24	98,11	60,98	34,25	19,82	14,30	11,97	9,65	7,02	5,92	3,10
10.2V	130,90	94,66	59,50	34,00	19,34	14,02	11,68	9,27	7,00	5,86	3,04
10.5V	122,84	89,59	58,82	34,05	19,40	13,94	11,63	9,30	6,83	5,75	2,95
10.8V	111,72	82,29	56,68	33,24	18,96	13,52	11,28	9,10	6,49	5,50	2,79

## Constant Power Discharge Characteristics (Watt per Battery, 25°C)

F.V./TIME	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	1363,44	1012,20	684,17	383,88	228,13	164,83	139,02	114,10	80,23	68,37	36,18
9.90V	1327,88	982,84	671,45	383,08	223,93	162,49	136,48	110,34	80,44	67,99	35,67
10.2V	1292,31	953,48	658,73	382,28	219,73	160,15	133,94	106,59	80,64	67,62	35,16
10.5V	1247,70	928,70	644,09	384,27	221,17	159,87	133,82	107,36	78,97	66,65	34,25
10.8V	1171,89	880,70	613,36	376,66	217,09	155,60	130,35	105,44	75,33	64,02	32,49

All mentioned values are average values.