

# SBL 100-12i(sh)

## (12V 100Ah)

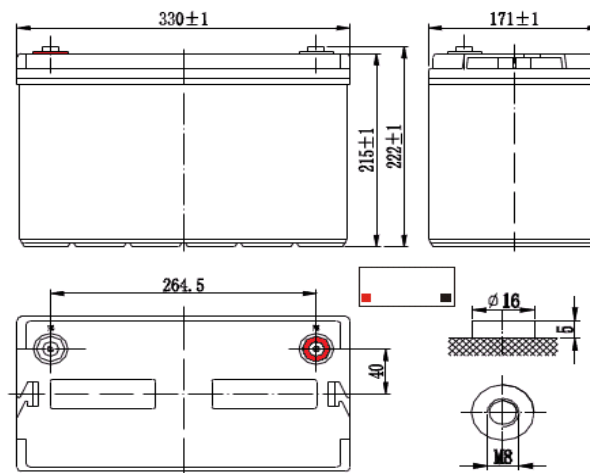
High Performance battery with 10-12 years design life (EUROBAT)

Status: 01-2014

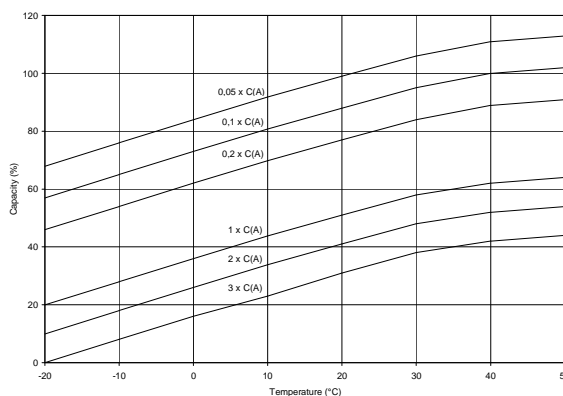
### Specifications

Nominal Voltage		12V
Capacity (10hr@25°C@1.75V/C)		104.6Ah
Dimensions	Length	330mm (12.99inch)
	Width	171mm (6.73inch)
	Height	214mm (8.43inch)
	Total Height	221mm (8.70inch)
Approx. Weight		30 kg (66.14lbs)
Maximum charging current		30A
Maximum discharge current		800A (5sec.)
Internal resistance (Fully charged, 25°C)		Approx. 4.5mΩ
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>

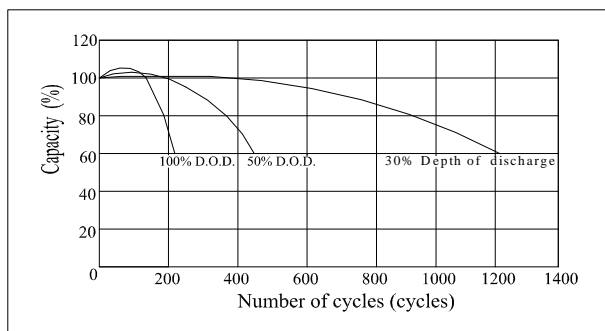
### Dimensions



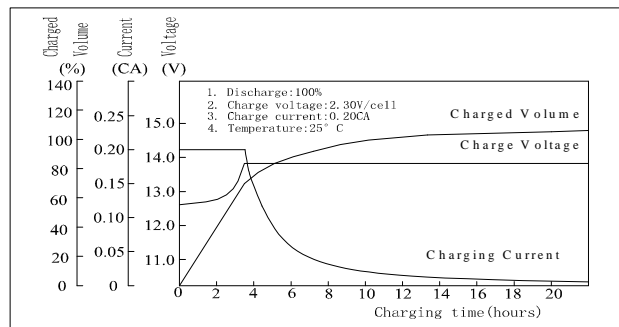
### Temperature Effects in Relation to Battery Capacity



### 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	254,05	184,85	113,68	62,81	36,94	26,54	22,30	18,26	12,80	10,90	5,76
9.90V	246,01	178,47	110,92	62,31	36,06	26,01	21,77	17,55	12,76	10,77	5,65
10.2V	237,97	172,08	108,17	61,81	35,17	25,48	21,24	16,85	12,72	10,65	5,53
10.5V	223,35	162,90	106,95	61,90	35,27	25,35	21,14	16,91	12,41	10,46	5,37
10.8V	203,16	149,64	103,06	60,45	34,49	24,58	20,51	16,55	11,79	10,01	5,07

### 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	2481,60	1842,30	1245,25	698,70	415,21	300,01	253,03	207,67	146,03	124,44	65,85
9.90V	2415,47	1787,83	1221,39	696,82	407,34	295,57	248,27	200,72	146,32	123,68	64,88
10.2V	2349,33	1733,35	1197,52	694,95	399,46	291,13	243,50	193,77	146,60	122,92	63,92
10.5V	2268,55	1688,55	1171,09	698,68	402,14	290,68	243,31	195,20	143,59	121,19	62,28
10.8V	2131,06	1601,54	1115,38	684,95	394,77	282,95	237,04	191,75	136,99	116,42	59,08

All mentioned values are average values.