

SBL 85-12HR

(425w/cell)

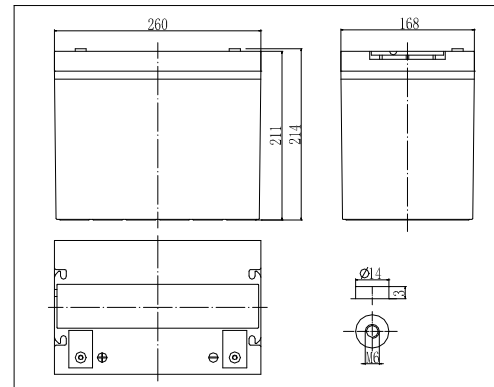
High Performance battery with 10-12 years design life (EUROBAT)

Status: 08-2009

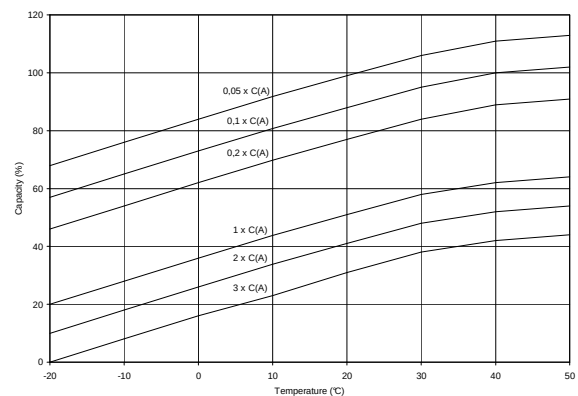
Specifications

Nominal Voltage		12V
Capacity (25°C@1.60V/C)		425W@10min-rate
Dimensions	Length	260mm (10.24inch)
	Width	168mm (6.61inch)
	Height	211mm (8.31inch)
	Total Height	214mm (8.43inch)
Approx. Weight		24.8kg (54.6lbs)
Maximum charging current		22.5A
Maximum discharge current		750A (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 ±3°C (77°F±5°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		Recognized by UL & CE

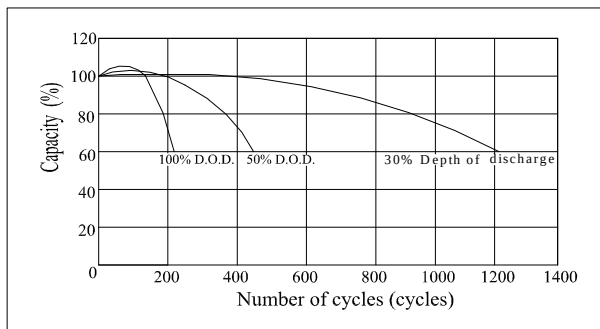
Dimensions



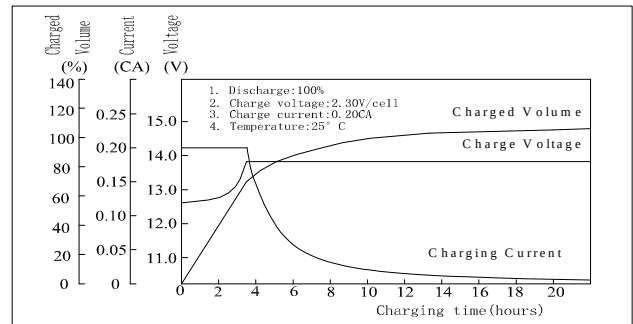
Temperature Effects in Relation to Battery Capacity



Cycle Life (25°C)



Charging Characteristics (25°C)



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

F.V/TIME	2min	4min	6min	8min	10min	15min	20min	30min	60min	90min
9.60V	555,40	414,63	323,07	276,15	237,66	175,34	141,31	100,04	53,87	42,98
9.90V	517,66	387,61	301,61	261,64	224,78	167,79	133,08	96,33	51,87	41,50
10.2V	501,52	376,14	292,36	255,35	219,23	164,61	129,53	94,70	50,98	40,76
10.5V	475,40	356,60	282,74	245,80	208,50	158,91	127,56	93,22	50,83	40,24
10.8V	449,27	336,91	273,04	236,11	197,69	153,06	125,52	91,66	50,61	39,79

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

F.V/TIME	2min	4min	6min	8min	10min	15min	20min	30min	60min	90min
9.60V	5976,44	4461,67	3476,45	2971,82	2552,90	1886,91	1543,88	1093,72	589,10	471,28
9.90V	5570,63	4171,74	3244,69	2814,83	2418,65	1806,01	1454,16	1052,81	566,87	453,05
10.2V	5397,03	4047,55	3145,43	2748,37	2358,74	1771,02	1415,19	1035,03	557,08	444,60
10.5V	5115,42	3836,78	3042,22	2644,29	2242,86	1709,37	1393,89	1018,58	554,86	440,15
10.8V	4834,24	3625,13	2938,15	2541,09	2126,98	1647,27	1372,14	1001,68	551,75	435,71

All mentioned values are average values.