

SBV 7-12 / 7-12L

(12V 7Ah)

VdS: G 108004

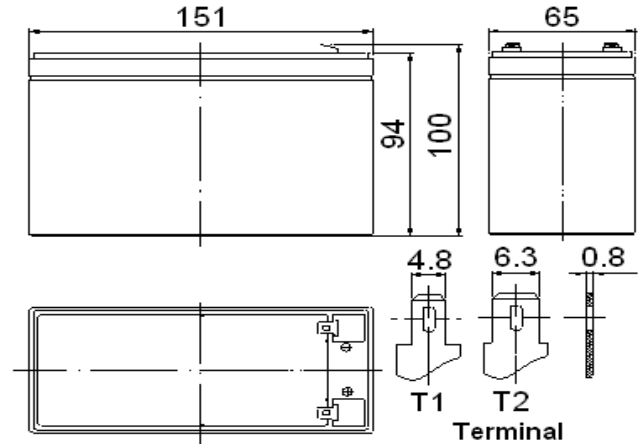
General Purpose battery with 6-9 years design life (EUROBAT)

Status: 05-2014

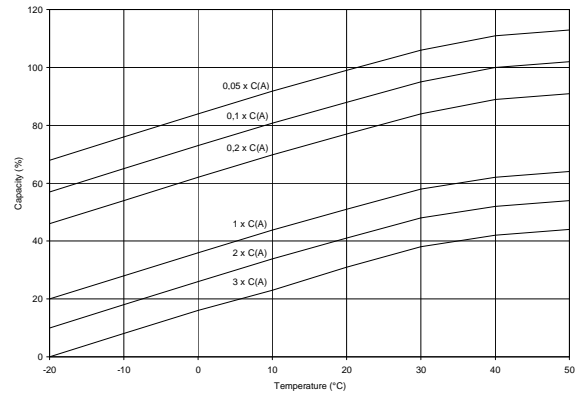
Specifications

Nominal Voltage		12V
Capacity (20hr@25°C@1.75V/C)		7Ah
Dimensions	Length	151mm (5.94 inch)
	Width	65mm (2.56 inch)
	Height	94mm (3.70 inch)
	Total Height	100mm (3.94 inch)
Approx. Weight		2.35 kg (5.18 lbs)
Maximum charging current		2.1 A
Maximum discharge current		105 A (5sec.)
Internal resistance (Fully charged, 25°C)		Approx. 25 mΩ
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

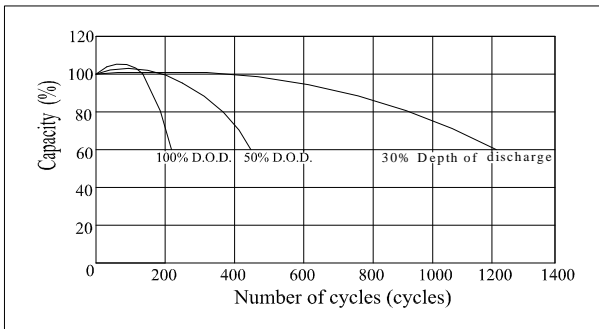
Dimensions



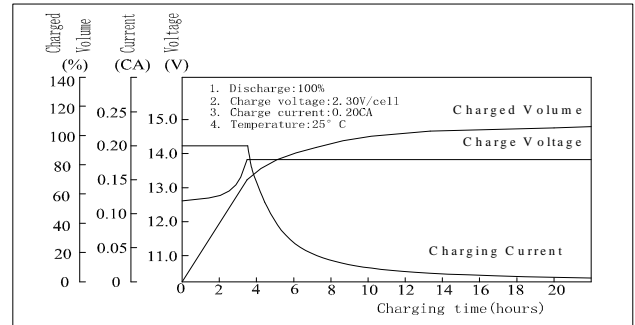
Temperature Effects in Relation to Battery Capacity



Cycle Life (25°C)



Charging Characteristics (25°C)



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

F.V/TIME	5min	10min	15min	30min	1h	3h	5h	10h	20h
9.60V	28.0	18.1	14.3	8.12	4.80	1.83	1.24	0.71	0.37
10.2V	26.6	17.2	13.7	7.79	4.61	1.80	1.22	0.71	0.37
10.8V	25.0	16.2	13.0	7.40	4.37	1.76	1.20	0.70	0.37

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

F.V/TIME	5min	10min	15min	30min	1h	3h	5h	10h	20h
9.60V	313	204	162	93.0	55.5	21.7	14.8	8.57	4.45
10.2V	297	194	156	89.3	53.3	21.4	14.6	8.50	4.41
10.8V	279	183	148	84.8	50.7	21.0	14.3	8.50	4.38

All mentioned values are average values.