

# SBV 45-12i

## (12V 45Ah)

VdS: G 114121

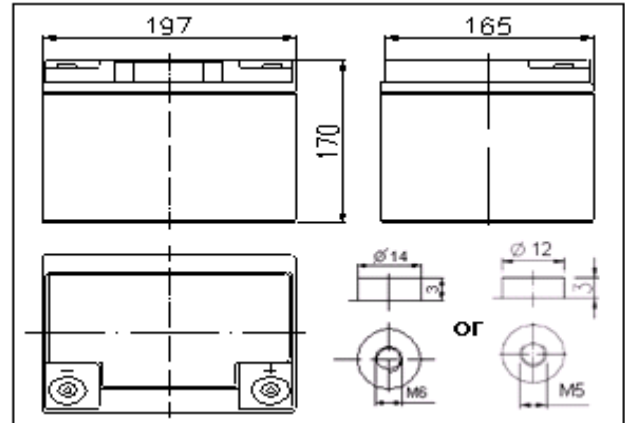
High Performance battery with 10-12 years design life (EUROBAT)

Status: 11-2014

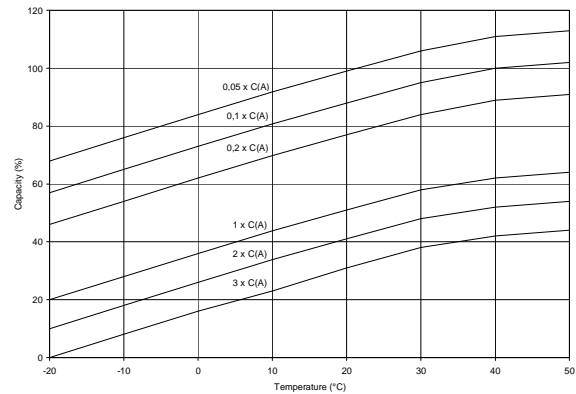
### Specifications

Nominal Voltage		12V
Capacity (20hr@25°C@1.8V/C)		45.0 Ah
Dimensions	Length	197mm (7.76 inch)
	Width	165mm (6.50 inch)
	Height	170mm (6.69 inch)
	Total Height	170mm (6.69 inch)
Approx. Weight		14.0kg (30.9 lbs)
Maximum charging current		12A
Maximum discharge current		450A (5sec.)
Internal resistance (Fully charged, 25°C)		Approx. 8.0 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		<b>Recognized by UL &amp; CE</b>

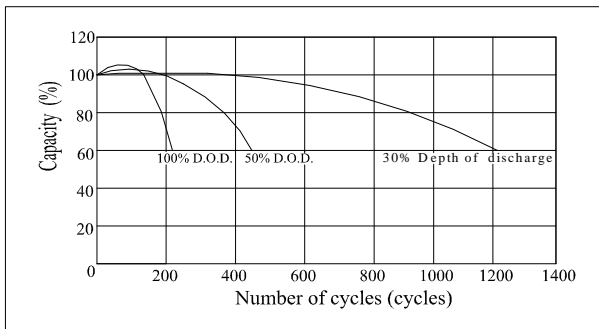
### Dimensions (mm)



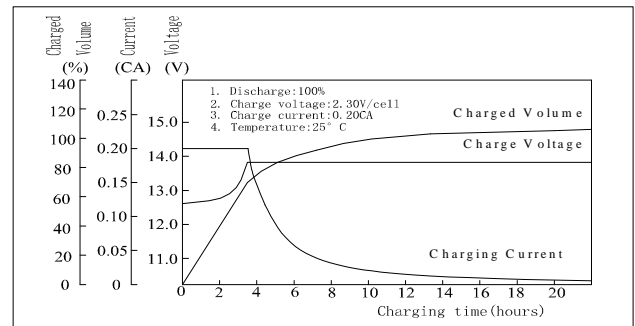
### Temperature Effects in Relation to Battery Capacity



### 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	130	88.0	73.0	43.0	27.0	11.2	7.82	4.47	2.28
10.2V	124	83.6	70.1	41.3	25.9	11.0	7.70	4.43	2.26
10.8V	116	78.6	66.6	39.2	24.6	10.8	7.55	4.40	2.25

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

F.V/TIME	5min	10min	15min	30min	1h	3h	5h	10h	20h
9.60V	1365	950	802	482	308	131	92.4	53.3	27.4
10.2V	1297	903	769	463	295	129	91.0	52.9	27.2
10.8V	1219	849	731	440	281	127	89.2	52.8	27.0

All mentioned values are average values.