

SBV 40-12i

(12V 40Ah)

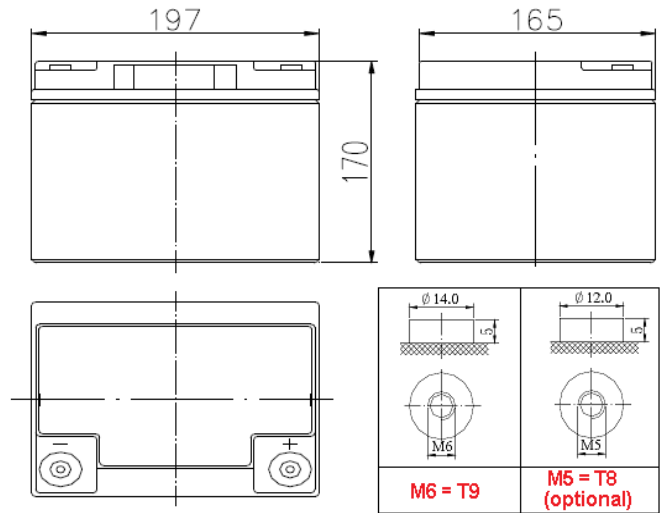
VdS: G 108008

Status:10-2015

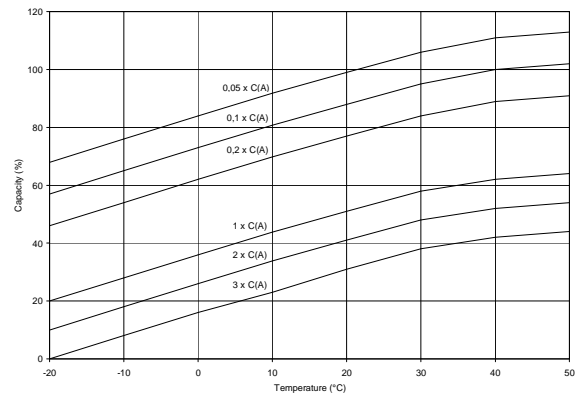
Specifications

Nominal Voltage		12V
Capacity (10hr@25°C@1.80V/C)		40.0 Ah
Dimensions	Length	197 mm (7.76 inch)
	Width	165 mm (6.50 inch)
	Height	170 mm (6.69 inch)
	Total Height	170 mm (6.69 inch)
Approx. Weight		13.5 kg (29.8 lbs)
Maximum charging current		12A
Maximum discharge current		400A (5sec.)
Internal resistance (Fully charged, 25°C)		Approx. 9.5 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

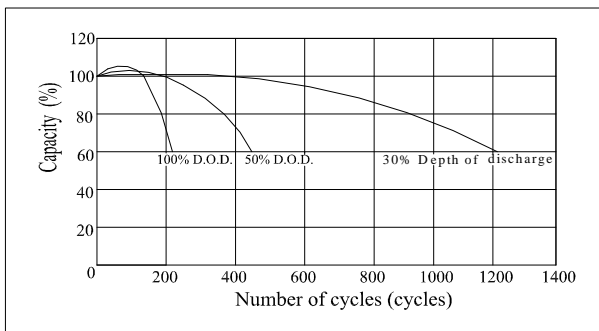
Dimensions – tolerance ± 1.0 mm



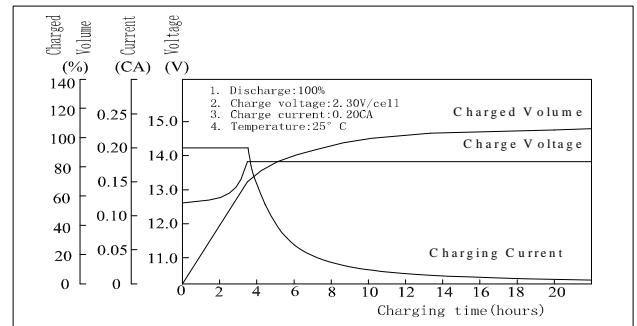
Temperature Effects in Relation to Battery Capacity



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	122	81.0	68.0	40.0	26.0	10.4	7.31	4.06	2.10
10.2V	116	77.0	65.3	38.4	25.0	10.2	7.20	4.02	2.10
10.8V	109	72.3	62.0	36.5	23.7	10.0	7.06	4.00	2.05

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

F.V/TIME	5min	10min	15min	30min	1h	3h	5h	10h	20h
9.60V	1281	875	747	449	296	122	86.4	48.5	25.2
10.2V	1217	831	717	431	285	120	85.1	48.0	25.2
10.8V	1144	781	681	409	270	118	83.4	48.0	24.6

All mentioned values are average values.