

BAC12 SERIES

BAC12-55 12V AGM Battery



BOSCH
Invented for life

Applications

Electric tools
Vehicle in place of walking
Lawn mowers

Golf trolleys and golf carts
Portable apparatus, lights
and instruments

Electric toys
Illumination light
Fire alarms

Portable power
Wheelchairs
Medical equipment

Bosch Master Data

Short Order Part Number BAC12-55	Bosch 13 Digit Part Number 0092L57154HD3	Nominal Voltage 12V	Nominal Capacity (20HR) 59.0 AH
Cold Cranking Amperes (CCA) 450.0 AH			
Case Size Dimension			
Length 228±3mm (8.98 inches)	Width 137±2mm (5.39 inches)	Container Height 210±3mm (8.27 inches)	Total Height (with Terminal) 216±3mm (8.50 inches)
Approx Weight 17.7 kg (39.0lbs)	Terminal T6	Container Material ABS	
Rated Capacity			
59.0 AH/2.95 A (20hr, 1.80V/cell, 25°C/77°F)	55.0 AH/5.50 A (10hr, 1.80V/cell, 25°C/77°F)	48.2 AH/9.65 A (5hr, 1.75V/cell, 25°C/77°F)	
43.7 AH/14.6 A (3hr, 1.75V/cell, 25°C/77°F)	35.5 AH/35.5 A (1hr, 1.60V/cell, 25°C/77°F)		
Max. Discharge Current 660A (5s)	Internal Resistance Approx 7.5mΩ		
Operating Temp. Range			
Discharge : -15-50°C (5-122°F)	Charge: 0-40°C (32-104°F)	Storage : -15-40°C (5-104°F)	
Nominal Operating Temp. Range 25±3°C (77±5°F)	Cycle Use Initial Charging Current less than 16.5A. Voltage 14.4V-15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C		
Standby Use No limit on Initial Charging Current Voltage 13.5V-13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C			
Capacity affected by Temperature 40°C (104°F) 103% 25°C (77°F) 100% 0°C (32°F) 86%	Self Discharge Bosch BAC series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.		

Certification Standards

AS/NZS
4029.2:2000



Constant Current Discharge (Amperes) at 25°C (77°F)

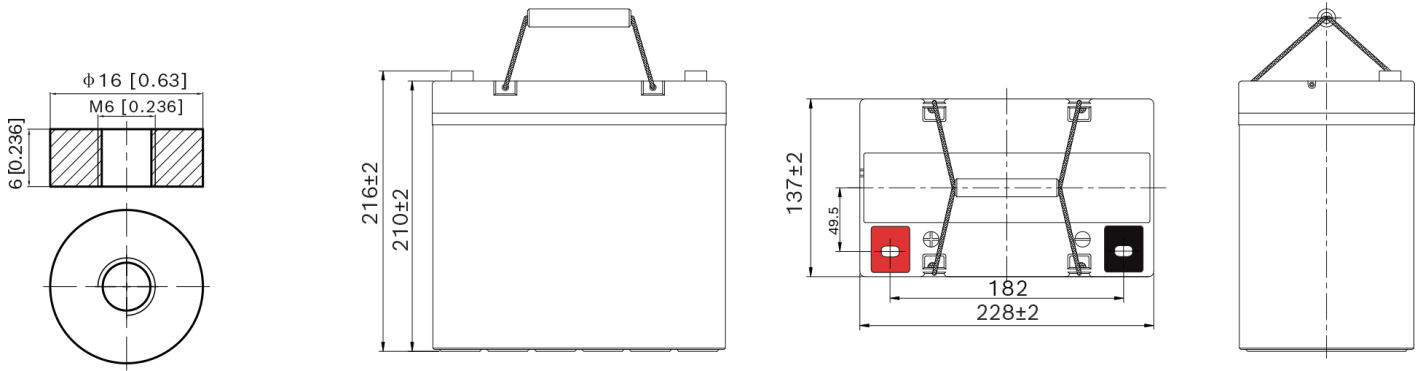
F.V/Time	10min	15min	20min	30min	45min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.85V/cell	80.5	67.8	59.2	42.6	33.8	27.5	17.1	13.3	10.8	8.76	7.64	6.23	5.19	2.92
1.80V/cell	102.9	81.9	70.0	50.3	39.4	30.8	18.6	14.3	11.5	9.40	8.19	6.61	5.50	2.95
1.75V/cell	113.1	89.4	75.3	52.2	40.8	32.2	19.3	14.6	11.8	9.65	8.42	6.73	5.56	2.98
1.70V/cell	123.2	95.5	79.1	54.3	42.5	33.2	20.1	15.0	12.1	9.89	8.59	6.82	5.61	3.03
1.65V/cell	133.0	101.5	84.1	57.3	43.5	34.3	20.6	15.6	12.5	10.2	8.78	6.93	5.73	3.07
1.60V/cell	144.4	108.6	89.5	60.5	45.4	35.5	21.3	16.1	12.9	10.5	8.97	6.99	5.79	3.09

Constant Power Discharge (Watts) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.85V/cell	150.2	127.7	112.8	81.9	65.5	53.3	33.2	26.0	21.1	17.2	15.1	12.3	10.3	5.84
1.80V/cell	189.4	152.0	131.4	95.4	75.5	59.4	36.1	27.8	22.4	18.4	16.1	13.1	10.9	5.89
1.75V/cell	205.6	164.5	140.1	98.6	78.0	61.9	37.3	28.3	22.9	18.9	16.5	13.3	11.0	5.94
1.70V/cell	220.9	174.3	146.4	102.2	80.9	63.7	38.7	29.0	23.4	19.3	16.9	13.5	11.1	6.04
1.65V/cell	236.7	184.2	154.8	107.3	82.6	65.6	39.6	30.1	24.2	19.8	17.2	13.6	11.3	6.11
1.60V/cell	252.6	194.6	163.2	112.2	85.3	67.4	40.7	30.9	24.8	20.3	17.5	13.8	11.4	6.14

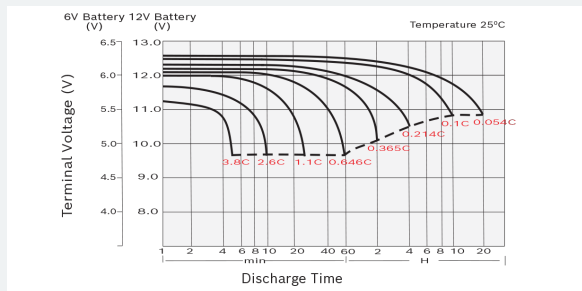
Product Dimension & Design

T6 Terminal
Unit: mm [inches]

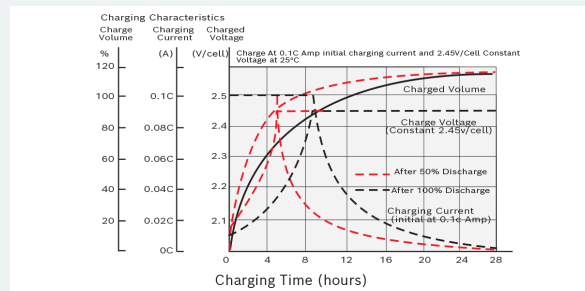


Product Performance Overview

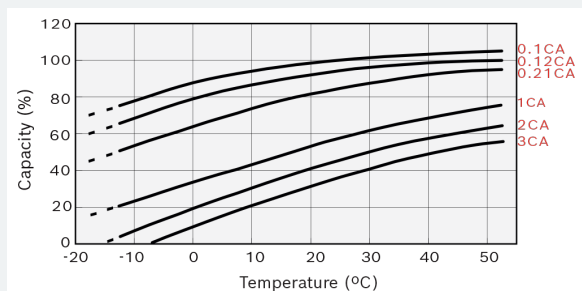
Discharge Characteristics



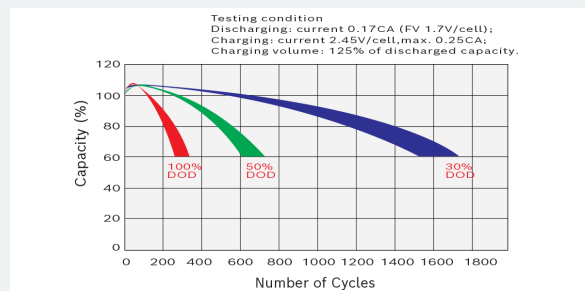
Charging Characteristics



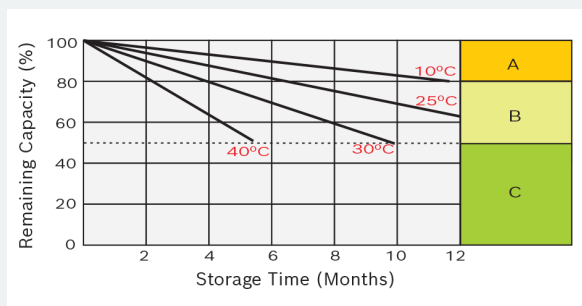
Temperature Effects in Relation to Battery Capacity



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



- A** No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:
 - Charged for above 3 days at limited current 0.25CA and constant volatge 2.25V/cell.
 - Charged for above 20 hours at limited current 0.25CA and constant volatge 2.45V/cell.
 - Charged for 8~10 hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached.

Your address for genuine Bosch quality:

Dealer stamp here: