

BAC12 SERIES

BAC12-120RFR 12V AGM Battery

Fire Resistant



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 BAC12-120RFR	Bosch 13 Digit Part Number 0092L57161HD3	Nominal Voltage 12V	Nominal Capacity (20HR) 120.0 AH
Cold Cranking Amperes (CCA) 850.0 AH			

Case Size Dimension

Length 330±3mm (12.99 inches)	Width 173±2mm (6.81 inches)	Container Height 212±3mm (8.35 inches)	Total Height (with Terminal) 220±3mm (8.66 inches)
Approx Weight 31.4 kg (69.2lbs)	Terminal T11	Container Material ABS Fire Resistant	

Rated Capacity

120.0 AH/6.00 A (20hr, 1.80V/cell, 25°C/77°F)	112.0 AH/11.2 A (10hr, 1.80V/cell, 25°C/77°F)	98.0 AH/19.6 A (5hr, 1.75V/cell, 25°C/77°F)
89.1 AH/29.7 A (3hr, 1.75V/cell, 25°C/77°F)	72.3 AH/72.3 A (1hr, 1.60V/cell, 25°C/77°F)	

Max. Discharge Current

1300A (5s)

Internal Resistance

Approx 4.0mΩ

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 36.0A. 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 BA 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)

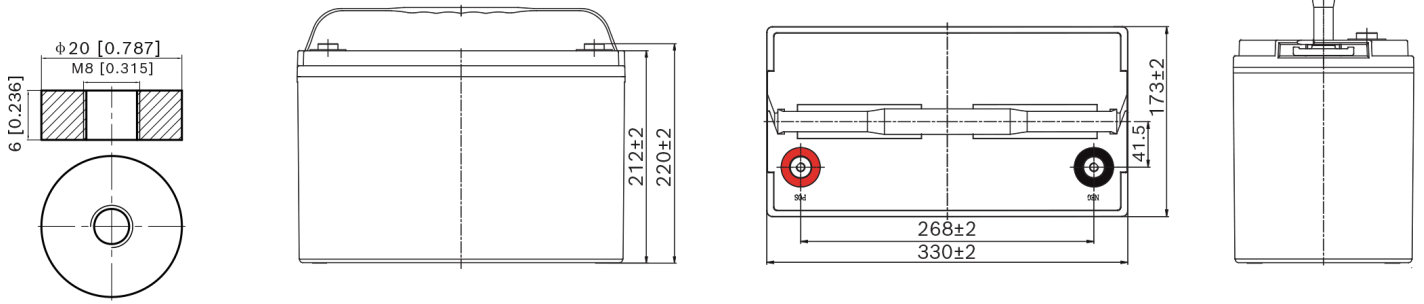
F.V/Time	10min	15min	20min	30min	45min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.85V/cell	164.0	137.9	120.6	86.8	68.9	55.9	34.7	27.1	21.9	17.8	15.6	12.7	10.5	5.94
1.80V/cell	209.5	166.7	142.5	102.4	80.2	62.6	37.9	29.1	23.4	19.1	16.7	13.4	11.2	6.00
1.75V/cell	230.2	182.1	153.3	106.3	83.1	65.5	39.3	29.7	24.0	19.6	17.2	13.7	11.3	6.06
1.70V/cell	250.9	194.4	161.1	110.6	86.5	67.6	40.9	30.5	24.5	20.2	17.4	13.9	11.4	6.17
1.65V/cell	270.8	206.7	171.1	116.6	88.6	69.9	42.0	31.8	25.4	20.7	17.9	14.1	11.7	6.25
1.60V/cell	293.9	221.1	182.3	123.2	92.4	72.3	43.4	32.8	26.2	21.4	18.3	14.3	11.8	6.28

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	305.9	260.1	229.7	166.7	133.3	108.5	67.7	52.9	42.9	35.0	30.7	25.1	20.9	11.9
1.80V/cell	385.7	309.5	267.4	194.3	153.8	120.8	73.4	56.6	45.6	37.5	32.8	26.6	22.2	12.0
1.75V/cell	418.5	334.9	285.3	200.7	158.8	126.0	76.0	57.6	46.6	38.4	33.7	27.1	22.4	12.1
1.70V/cell	449.8	354.9	298.1	208.1	164.6	129.6	78.8	59.0	47.7	39.3	34.3	27.3	22.6	12.3
1.65V/cell	482.0	374.9	315.2	218.5	168.1	133.5	80.7	61.4	49.3	40.3	35.0	27.8	23.0	12.4
1.60V/cell	514.3	396.2	332.4	228.4	173.7	137.2	83.0	62.9	50.6	41.4	35.7	28.0	23.2	12.5

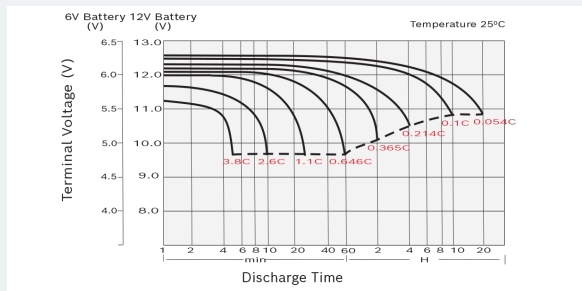
Product Dimension & Design

T11 Terminal
Unit: mm [inches]

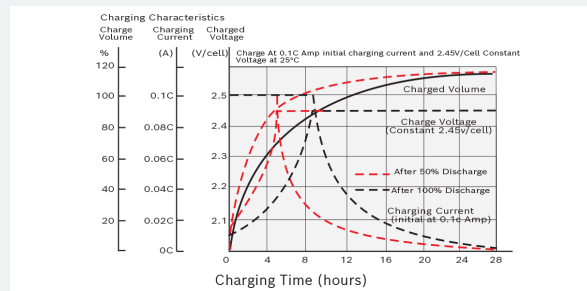


Product Performance Overview

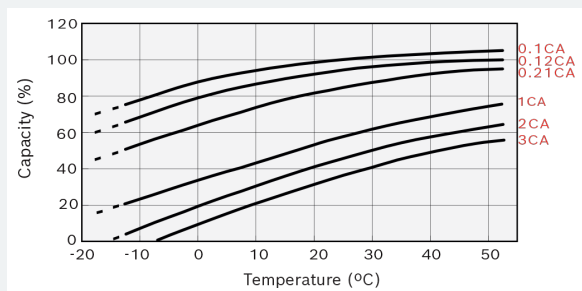
Discharge Characteristics



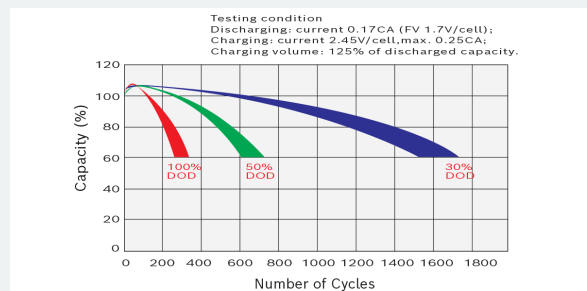
Charging Characteristics



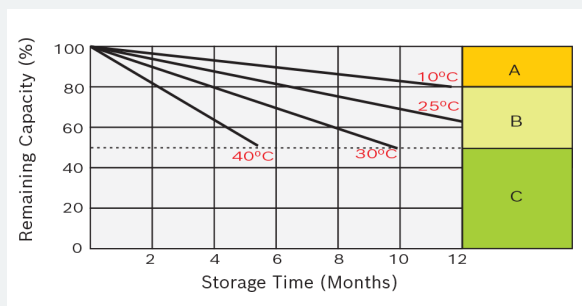
Temperature Effects in Relation to Battery Capacity



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:
 1. Charged for above 3 days at limited current 0.25CA and constant volatge 2.25V/cell.
 2. Charged for above 20 hours at limited current 0.25CA and constant volatge 2.45V/cell.
 3. 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: