

BAC12 SERIES

BAC12-28 12V AGM Battery



BOSCH
Invented for life

Applications

UPS and EPS
Emergency light
Railway signal and aircraft signal system
Marine and power stations

Alarm and security system
Electronic apparatus and equipment
Communication power supply,
DC power supply

General Features

10 - 12 years design life (20°C)
Grid refining technology and the thicker plates are used to extend the battery standby life and reduce the plate grid corrosion speed

Using oxygen recombination technology: maintenance-free
Unique vent valve design: control water loss, prevent air and sparks going inside

Bosch Master Data

Short Order Part Number	Bosch 10 Digit Part Number	Rated Voltage	Nominal Capacity (20HR)
BAC12-28	0092L57172	12V	28.0AH
Case Size Dimension			
Length	Width	Container Height	Total Height (with Terminal)
164±2mm (6.46 inches)	125±2mm (4.92 inches)	175±2mm (6.89 inches)	175±2mm (6.89 inches)
Approx Weight	Terminal	Container Material	
9.1 kg (20.1 lbs)	T3-A	ABS	
Rated Capacity			
28.00 AH/1.39 A (20hr,1.40A,1.75V/cell)	26.30 AH/2.60 A (10hr,2.63A,1.75V/cell)	23.80 AH/4.56 A (5hr,4.76A,1.75V/cell)	
21.69 AH/6.89 A (3hr,7.23A,1.75V/cell)	18.70 AH/16.8 A (1hr,18.7A,1.60V/cell)		
Max. Discharge Current	Internal Resistance		
420A (5s)	Approx 14.0mΩ		
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	Cycle Use		
25±3°C (77±5°F)	Initial Charging Current less than 8.4A.Voltage 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C		
Standby Use			
Initial Charging Current less than 8.4A. Voltage 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C			
Capacity affected by Temperature	Self Discharge		
40°C (104°F) 103% 25°C (77°F) 100% 0°C (32°F) 86%	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

Compliance with IEC 60896 standards, EU Battery Directive UL, CE Certified Manufactured to IATF16949, ISO45001, ISO9001, ISO14001 within certified production facilities

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

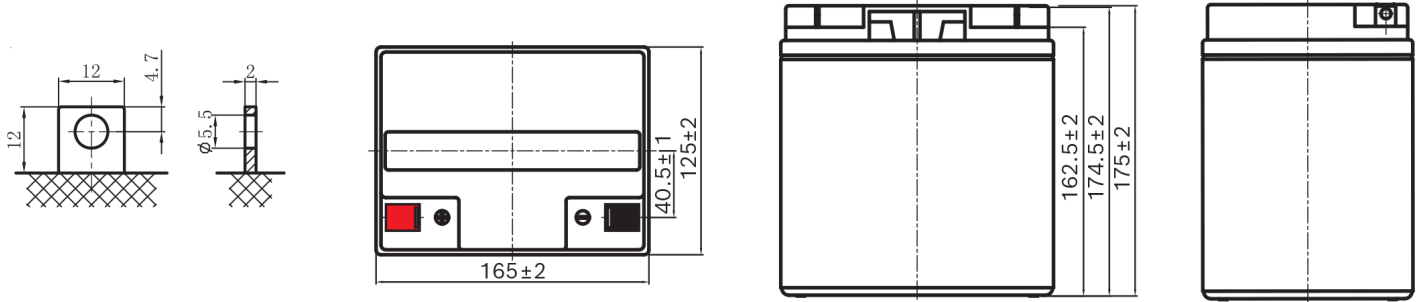
F.V/Time	10min	15min	20min	30min	45min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.85V/cell	58.4	46.3	40.1	28.5	20.9	17.1	9.68	7.02	5.58	4.64	3.97	3.12	2.57	1.37
1.80V/cell	61.4	48.1	41.3	29.2	21.3	17.4	9.83	7.13	5.66	4.70	4.02	3.16	2.60	1.39
1.75V/cell	64.4	49.9	42.5	29.9	21.8	17.7	9.98	7.23	5.73	4.76	4.07	3.20	2.63	1.40
1.70V/cell	67.4	51.7	43.8	30.6	22.2	18.0	10.1	7.34	5.81	4.83	4.13	3.24	2.66	1.41
1.65V/cell	69.2	52.8	44.6	31.0	22.4	18.2	10.2	7.40	5.86	4.86	4.16	3.26	2.68	1.42
1.60V/cell	73.4	55.2	46.3	32.0	23.0	18.7	10.4	7.55	5.97	4.95	4.23	3.31	2.72	1.44

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	111.7	89.0	77.1	55.1	40.6	33.3	18.9	13.8	11.0	9.16	7.85	6.19	5.11	2.74
1.80V/cell	116.7	92.0	79.2	56.2	41.3	33.8	19.2	14.0	11.1	9.27	7.95	6.26	5.16	2.77
1.75V/cell	121.8	94.8	81.1	57.3	41.9	34.3	19.4	14.2	11.3	9.38	8.03	6.33	5.22	2.80
1.70V/cell	126.7	97.7	83.2	58.4	42.6	34.8	19.7	14.3	11.4	9.49	8.13	6.40	5.28	2.83
1.65V/cell	129.7	99.5	84.4	59.1	43.0	35.0	19.8	14.4	11.5	9.55	8.18	6.44	5.32	2.84
1.60V/cell	136.4	103.3	87.1	60.5	43.9	35.7	20.2	14.7	11.7	9.70	8.31	6.54	5.40	2.89

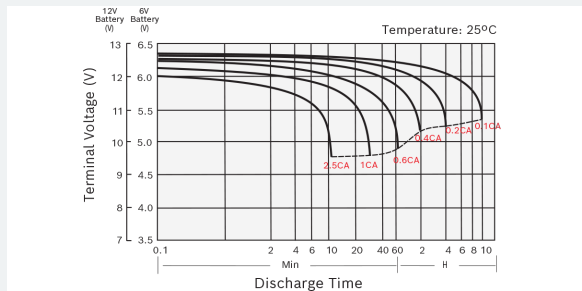
Product Dimension & Design

T3 - A Terminal
Unit: mm [inches]

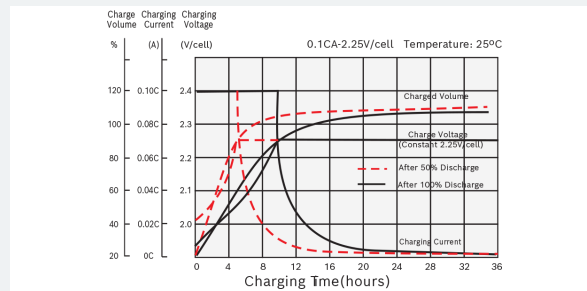


Product Performance Overview

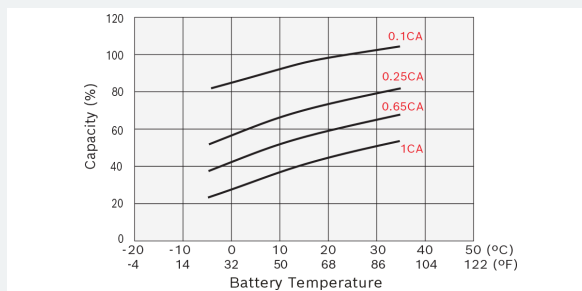
Discharge Characteristics



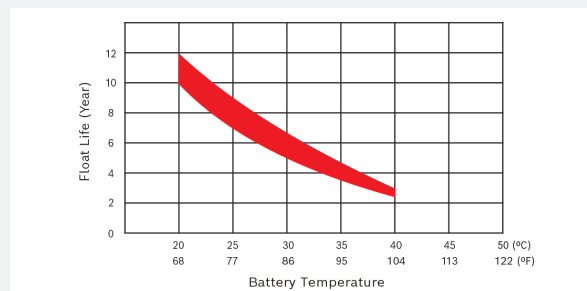
Charging Characteristics



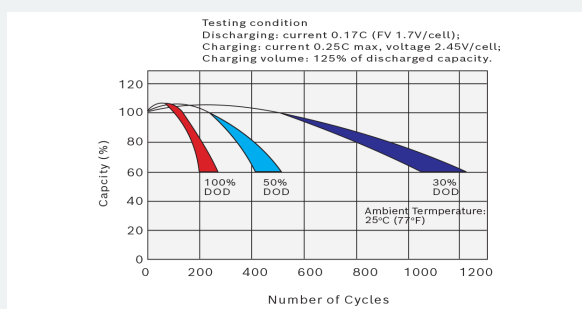
Temperature Effects in Relation to Battery Capacity



Cycle Life in Relation to Depth of Discharge



Cycle Life in Relation to Depth of Discharge



Your address for genuine Bosch quality:

Dealer stamp here: