

# BA12 SERIES

## BA12-7T1 12V AGM Battery



**BOSCH**  
Invented for life

### Applications

All purpose Uninterruptable Power Supply (UPS) Electric Power System (EPS)	Emergency backup power supply Emergency light Railway signal	Aircraft signal Alarm and security system Electronic apparatus and equipment	Communication power supply DC power supply Auto control system
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### Bosch Master Data

Short Order Part Number <b>BA12-7T1</b>	Bosch 13 Digit Part Number <b>0092L57170HD3</b>	Nominal Voltage <b>12V</b>	Nominal Capacity (20HR) <b>7.0 AH</b>
<b>Case Size Dimension</b>			
Length <b>151±1mm (5.95 inches)</b>	Width <b>65±1mm (2.54 inches)</b>	Container Height <b>93.5±1mm (3.68 inches)</b>	Total Height (with Terminal) <b>99±1mm (3.90 inches)</b>
Approx Weight <b>2.18 kg (4.81lbs)</b>	Terminal <b>T1</b>	Container Material <b>ABS</b>	
<b>Rated Capacity</b>			
<b>7.0 AH/0.35 A (20hr, 1.80V/cell, 25°C/77°F)</b>	<b>6.53 AH/0.653 A (10hr, 1.80V/cell, 25°C/77°F)</b>	<b>5.8 AH/1.16 A (5hr, 1.75V/cell, 25°C/77°F)</b>	
<b>5.13 AH/1.71 A (3hr, 1.75V/cell, 25°C/77°F)</b>	<b>4.26 AH/4.26 A (1hr, 1.60V/cell, 25°C/77°F)</b>		
Max. Discharge Current <b>105A (5s)</b>	Internal Resistance <b>Approx 23mΩ</b>		
<b>Operating Temp. Range</b>			
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 <b>25±3°C (77±5°F)</b>	Cycle Use <b>Initial Charging Current less than 2.1A.Voltage 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C</b>		
Standby Use <b>No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C</b>			
Capacity affected by Temperature		Self Discharge	
<b>40°C (104°F) 103%</b>	<b>25°C (77°F) 100%</b>	<b>0°C (32°F) 86%</b>	
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)

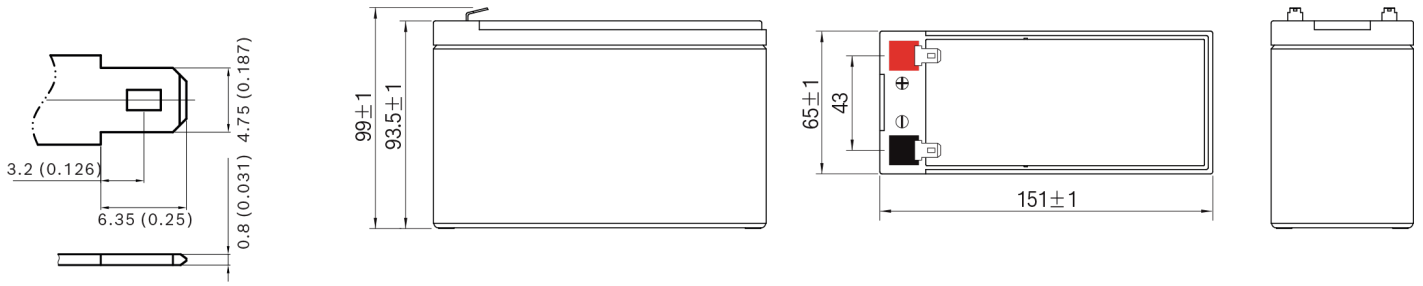
F.V/Time	5min	10min	15min	20min	30min	45min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.85V/cell	16.0	11.7	9.97	8.46	6.17	4.52	3.60	2.14	1.60	1.30	1.10	0.95	0.756	0.626	0.343
1.80V/cell	19.2	13.7	11.3	9.20	6.65	4.80	3.83	2.24	1.66	1.35	1.14	0.99	0.783	0.653	0.350
1.75V/cell	21.5	14.9	12.0	9.70	6.92	4.99	3.98	2.31	1.71	1.38	1.16	1.01	0.795	0.663	0.357
1.70V/cell	23.4	15.9	12.8	10.2	7.18	5.12	4.05	2.36	1.75	1.41	1.19	1.03	0.812	0.672	0.361
1.65V/cell	25.5	16.8	13.4	10.6	7.43	5.28	4.17	2.40	1.77	1.43	1.21	1.04	0.823	0.680	0.365
1.60V/cell	26.8	17.6	13.8	10.9	7.64	5.42	4.26	2.46	1.81	1.46	1.23	1.06	0.837	0.690	0.371

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

F.V/Time	5min	10min	15min	20min	30min	45min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.85V/cell	30.3	22.3	19.2	16.4	12.0	8.86	7.09	4.23	3.17	2.59	2.20	1.91	1.52	1.26	0.694
1.80V/cell	35.9	25.8	21.5	17.7	12.9	9.37	7.52	4.42	3.30	2.69	2.27	1.97	1.57	1.31	0.704
1.75V/cell	39.8	28.0	22.8	18.6	13.4	9.72	7.79	4.55	3.37	2.74	2.31	2.00	1.59	1.33	0.716
1.70V/cell	42.8	29.5	24.0	19.3	13.8	9.89	7.88	4.61	3.42	2.78	2.34	2.03	1.61	1.33	0.718
1.65V/cell	45.7	30.7	24.8	19.8	14.1	10.1	8.02	4.65	3.45	2.80	2.36	2.05	1.62	1.34	0.720
1.60V/cell	47.0	31.5	25.1	20.1	14.3	10.3	8.13	4.73	3.50	2.83	2.39	2.07	1.63	1.35	0.728

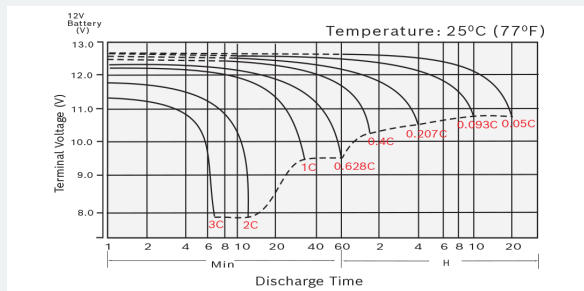
# Product Dimension & Design

**T1 Terminal**  
Unit: mm [inches]

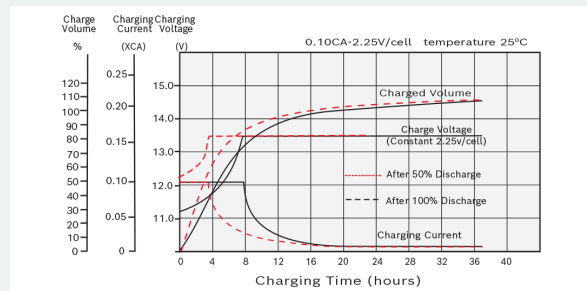


# Product Performance Overview

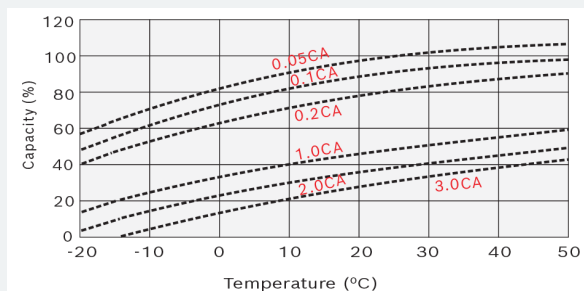
## Discharge Characteristics



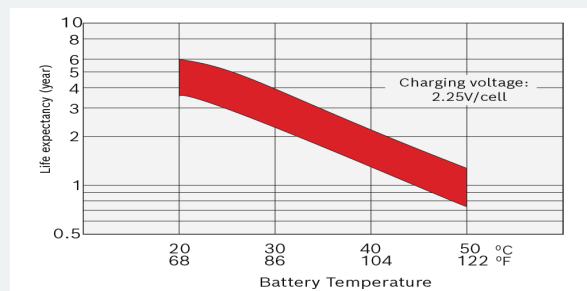
## Float Charging Characteristics



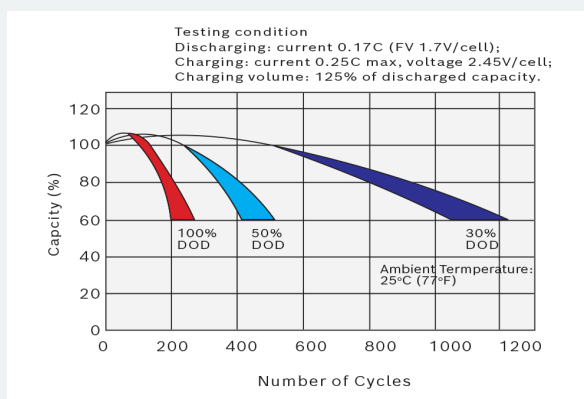
## Temperature Effects in Relation to Battery Capacity



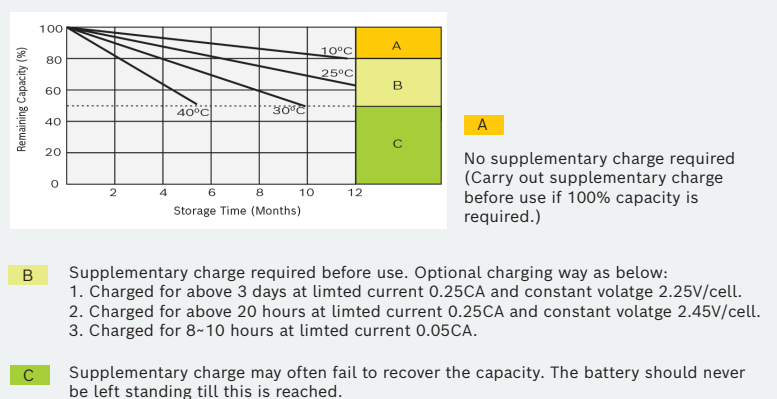
## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## Self Discharge Characteristics



Your address for genuine Bosch quality:

Dealer stamp here: