

# BG12 SERIES

## BG12-135 12V Gel Battery



**BOSCH**  
Invented for life

### Applications

Telecommunications	Engine starting	Golf trolley
Solar system	Wheelchair	Boats
Wind power system	Floor cleaning machines	

### Bosch Master Data

Short Order Part Number	Nominal Voltage	Nominal Capacity (20HR)	
BG12-135	12V	140.0 AH	
<b>Case Size Dimension</b>			
Length	Width	Container Height	Total Height (with Terminal)
485±3mm (19.09 inches)	170±2mm (6.69 inches)	240±3mm (9.45 inches)	240±3mm (9.45 inches)
Approx Weight	Terminal	Container Material	
44.2 kg (97.5lbs)	T11	ABS	
<b>Rated Capacity</b>			
135.0 AH/6.75 A (20hr, 1.80V/cell, 25°C/77°F)	125.6 AH/12.56 A (10hr, 1.75V/cell, 25°C/77°F)	108.0 AH/21.6 A (5hr, 1.75V/cell, 25°C/77°F)	
97.8 AH/32.6 A (3hr, 1.75V/cell, 25°C/77°F)	74.3 AH/74.3 A (1hr, 1.67V/cell, 25°C/77°F)		
Max. Discharge Current	Internal Resistance		
1260A (5s)	Approx 4.2mΩ		
<b>Operating Temp. Range</b>			
Discharge : -20~55°C (-4~131°F)	Charge: 0~40°C (32~104°F)	Storage : -20~50°C (-4~122°F)	
Nominal Operating Temp. Range	Cycle Use		
25±3°C (77±5°F)	Initial Charging Current less than 33.75A. 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		Self Discharge	
40°C (104°F) 103%	25°C (77°F) 100%	0°C (32°F) 86%	Bosch BG series batteries may be stored for up to 9 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)

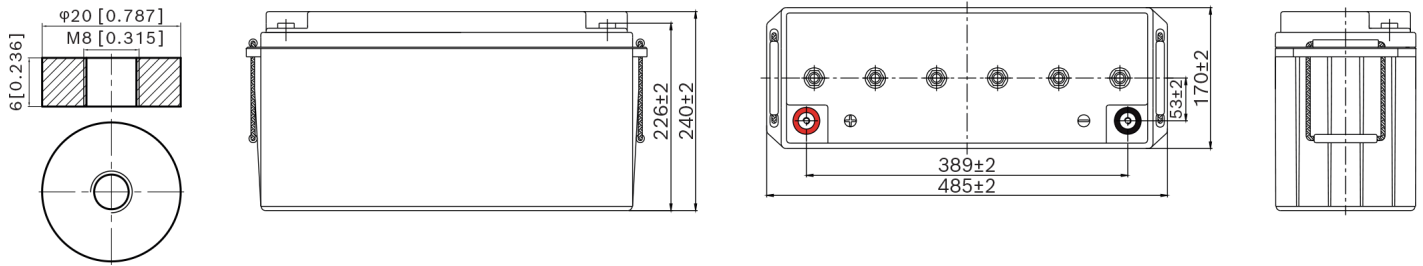
F.V/Time	20min	30min	45min	1hr	2hr	3hr	4hr	5hr	6hr	7hr	8hr	9hr	10hr	20hr
1.85V/cell	114.2	89.6	68.4	57.2	36.3	27.7	22.9	19.8	17.1	15.1	13.6	12.5	11.8	6.48
1.80V/cell	130.8	100.2	75.4	63.2	39.3	29.7	24.3	20.8	17.9	15.8	14.3	13.1	12.3	6.75
1.75V/cell	147.0	110.2	81.5	67.6	41.6	31.3	25.4	21.6	18.6	16.4	14.7	13.5	12.56	6.89
1.70V/cell	158.4	118.0	86.6	71.6	44.1	32.6	26.3	22.3	19.2	16.9	15.2	13.9	12.9	6.97
1.65V/cell	164.8	122.6	89.6	74.3	45.3	33.7	26.9	22.7	19.5	17.2	15.4	14.0	13.0	7.04
1.60V/cell	178.6	131.2	96.3	78.8	47.1	35.0	27.9	23.4	20.0	17.6	15.7	14.3	13.3	7.14

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

F.V/Time	20min	30min	45min	1hr	2hr	3hr	4hr	5hr	6hr	7hr	8hr	9hr	10hr	20hr
1.85V/cell	218.6	172.7	132.6	111.4	71.0	54.2	45.1	39.1	33.8	30.0	27.1	24.8	23.5	12.9
1.80V/cell	247.1	191.2	145.2	122.4	76.4	57.9	47.6	40.9	35.4	31.3	28.4	26.0	24.5	13.5
1.75V/cell	274.6	208.4	155.8	130.3	80.8	61.0	49.7	42.4	36.5	32.4	29.2	26.8	25.0	13.7
1.70V/cell	292.6	221.2	164.2	137.1	85.2	63.4	51.2	43.6	37.7	33.4	30.0	27.5	25.5	13.9
1.65V/cell	301.2	227.5	168.9	141.4	87.0	65.1	52.3	44.3	38.2	33.8	30.4	27.8	25.8	14.0
1.60V/cell	322.7	241.2	180.1	149.4	90.0	67.4	54.1	45.6	39.0	34.4	30.89	28.32	26.25	14.2

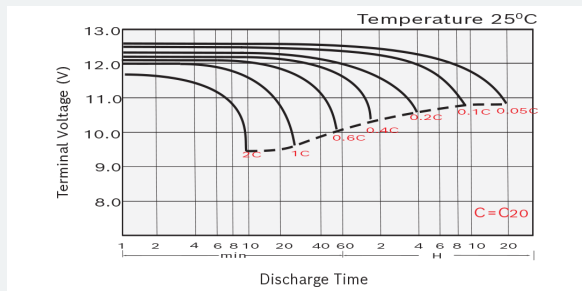
## Product Dimension & Design

T11 Terminal  
Unit: mm [inches]

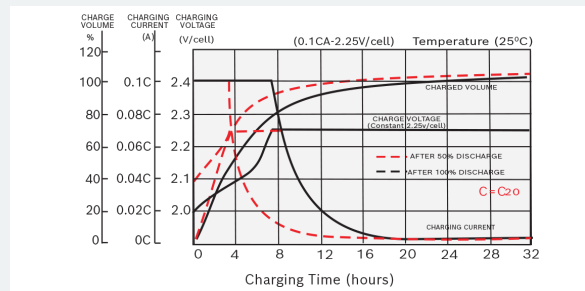


## Product Performance Overview

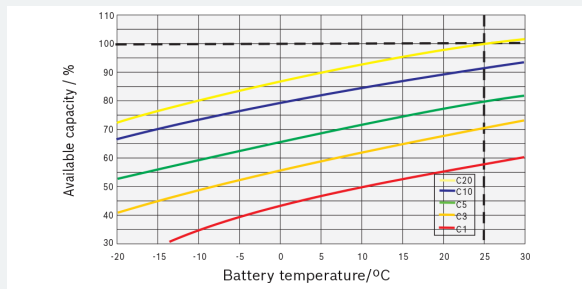
### Discharge Characteristics



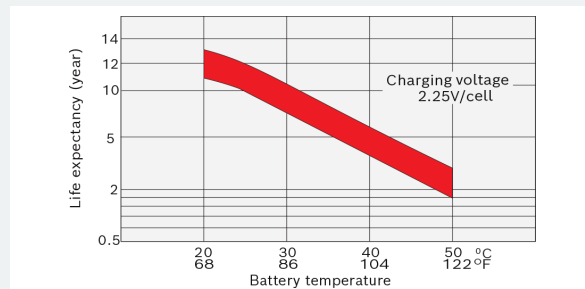
### Float Charging Characteristics



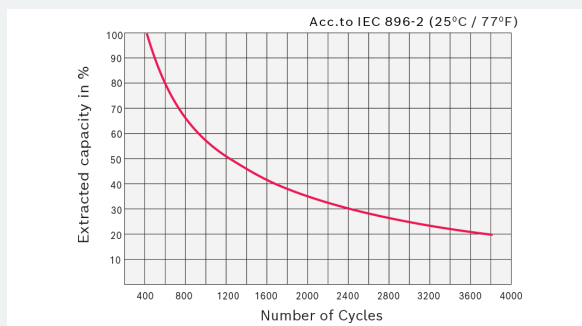
### Temperature Effects in Relation to Battery Capacity



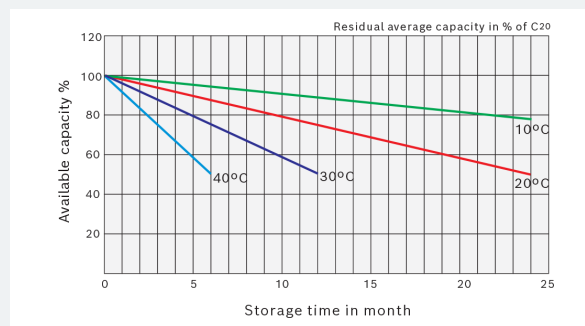
### Effect of Temperature on Long Term Float Life



### Cycle Life in Relation to Depth of Discharge



### General Relation of Capacity VS. Storage Time



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Dealer stamp here: