

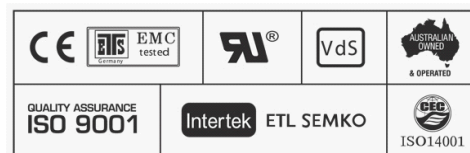
Specifications

Part Number	CBL12V100AH	
Nominal Voltage	12 Volt	
Nominal Capacity (20 HR)	100 AH	
Dimension	Length	330 +/-2mm (12.97 inches)
	Width	173 +/-2mm (6.8 inches)
	Container Height	212 +/-2mm (8.33 inches)
	Total Height	220 +/-2mm (8.65 inches)
Approx Weight	31.5 kg (69.43lbs)	
Terminal	T11	
Terminal Torque	11 - 14.7 Nm	
Container Material	ABS Fire Retardant	
Rated Capacity	107.0 AH / 5.35A	(20hr ,1.80V/cell, 25°C/77°F)
	100.0 AH / 10.0A	(10hr,1.80V/cell, 25°C/77°F)
	87.0 AH / 17.4A	(5hr,1.75V/cell, 25°C/77°F)
	78.0 AH / 26.0A	(3hr,1.75V/cell, 25°C/77°F)
	62.0 AH / 62.0A	(1hr,1.60V/cell, 25°C/77°F)
Plate Type	Die-Cast Thick	
Separator Type	Absorbed Glass Matt	
Max. Discharge Current	1200A (5s)	
Short Circuit Current	2400	
Internal Resistance	Approx 4.9mΩ	
Design Life	12- 16 Years	
Warranty - Standby & Backup Power	12 Months	
Warranty - Solar	12 Months	
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°C +/-3° (77°F +/-5°)	
Cycle Use	Initial Charging Current less than 30.0A.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)	1.03
	25°C (77°F)	1
	0°C (32°F)	0.86
Self Discharge	Fusion CBL Series batteries can 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.	

**NO IMAGE
AVAILABLE**

Applications

- * Fire, Alarm & Security Systems
- * Medical Equipment
- * Toys
- * Emergency Lighting Systems
- * UPS Systems (Uninterruptable Power Supply)
- * Emergency Back Up Power Supply
- * Communication Equipment
- * Solar Power Systems
- * Control Equipment
- * Electronic Testing Equipment
- * Marine Equipment
- * Telecommunication Systems
- * Lighting Systems
- * Stand-by Power Systems
- * Aircraft Signal Systems
- * Railway Signal Systems
- * DC Power Supply
- * Auto Control Systems
- * Other Speciality Applications



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

F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	-	117	98.4	87.3	72.4	55.9	47.8	31	23.3	19.1	16	14.1	11.3	9.69	5.17
1.80V/cell	-	133.9	110.5	96.5	78.6	60.3	50.5	33.3	25	20.3	17	14.9	11.9	10	5.35
1.75V/cell	-	152.1	124.5	106.7	85.5	65.7	55	34.6	26	21	17.4	15.4	12.3	10.3	5.49
1.70V/cell	-	171.7	138.2	117.7	93.3	70.8	58.2	36.5	27.4	21.9	18.4	16.1	12.8	10.7	5.63
1.65V/cell	-	184.4	147.9	125.3	98.5	74.9	60.2	37.8	28.5	22.8	19	16.7	13.2	11	5.8
1.60V/cell	-	202.9	162	136.1	105.1	77.9	62	38.8	29.2	23.3	19.4	17	13.4	11.2	5.89

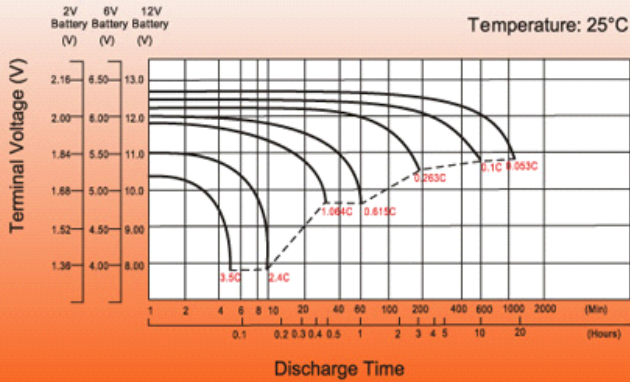
Constant Power Discharge (Amperes) at 25°C (77°F)

F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	-	218.5	185.6	166.3	139.4	108.5	93.2	60.7	45.8	37.7	31.8	27.9	22.5	19.4	10.3
1.80V/cell	-	247.1	205.6	181.2	149.2	116.1	97.8	64.8	49	39.8	33.5	29.4	23.6	20	10.7
1.75V/cell	-	276.2	228.9	198.3	160.8	125.5	106.1	67.2	50.7	41	34.2	30.3	24.3	20.5	10.9

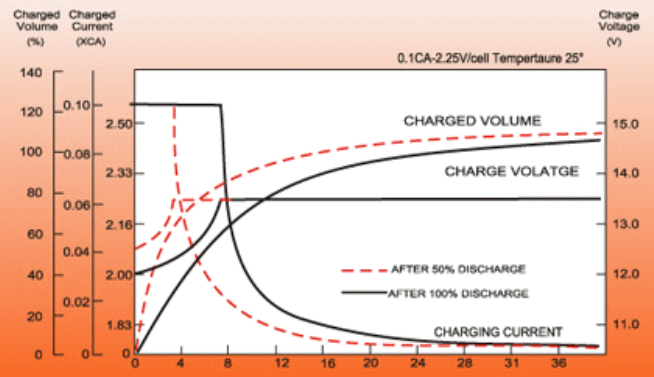
1.70V/cell	-	304.9	250.5	217.3	174.6	134.7	112	70.6	53.3	42.8	36.1	31.7	25.3	21.2	11.2
1.65V/cell	-	324.5	266.2	229.5	182.7	141.2	115	72.8	55.2	44.3	37.1	32.7	26.1	21.8	11.6
1.60V/cell	-	348.9	286.8	246.6	193.6	146	117.8	74.3	56.4	45.2	37.9	33.3	26.5	22.2	11.7

Dimensions

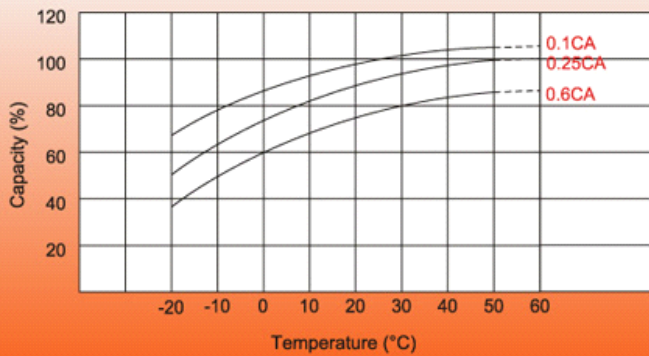
Discharge Characteristics



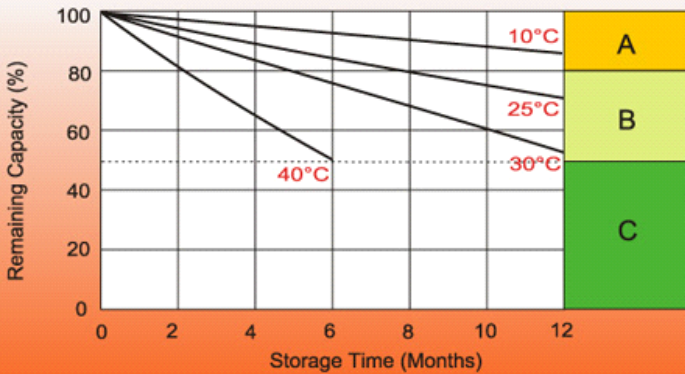
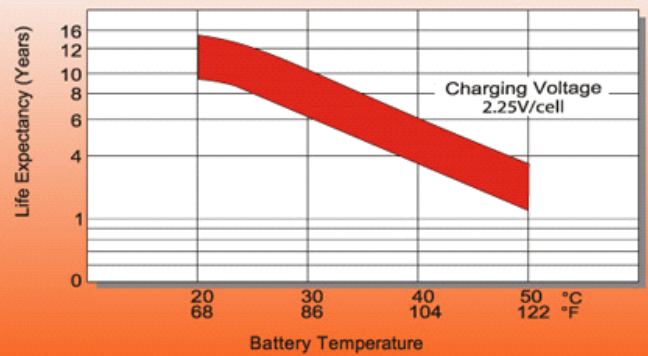
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effects of Temperature on Long Term Float Life



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 0.25C A and constant voltage 2.25V/cell.
 2. Charged for above 20 hours at limited current 0.25C A and constant voltage 2.45V/cell.
 3. Charged for 8-10 hours at limited current 0.05C A.
- C** Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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