

## Battery 100Ah/120Ah/200Ah

### Benefits

- Top of the line energy density
- Excellent fit also for small areas
- Cost savings through less need of footprint
- Cost savings through less racks needed
- Long battery life even during harsh AC power environments
- Significant cost savings through less replacement battery investments
- Less maintenance needed
- More optimized service
- Easy installation and handling
- Safe and reliable battery operation

### Features

- 15 years battery life at 20°C
- Very high volumetric energy density
- Excellent cyclic endurance
- Excellent deep-discharge recovery
- Bar code tracking system
- Front terminal batteries
- Low float charge current
- Long storage life(1 year @25°C)
- Thermal runaway resistance
- Tested to IEC60896-21 and BS6290:part4
- V0 flame retardant material option
- High Tin low Calcium alloy

### Introduction

Emerson Network Power has designed three different battery ranges that meet current and future needs for the telecom and datacom markets.

Excellence Range VRLA battery is the top of the line range of front terminal batteries that stands for Excellence in all design aspects for the most long lasting, reliable and efficient battery. A very high energy density combined with superior endurance promises a long term satisfactory battery operation.

### General Specification

Unit Type	PN	BOM	Voltage (V)	C10 (Ah)	Length (mm)	Width (mm)	Height (mm)	Weight (Kg)	Internal Resistance	Short Circuit Current	Flame Retardant Rate	Terminal
EB4 6V200	3/BKC8610200/30E	24030065	6	200	125	250	363	37	1.7mΩ	3644A	UL94HB	M8
EB6 12V120	6/BKC8610120/30E	24030069	12	120	520	107	263	43	5.26mΩ	2385A	UL94HB	M6
EB4 12V100	6/BKC8610098/30E	24030068	12	100	395	110	285	35	5.94mΩ	2068A	UL94HB	M6
EB4 6V200FR	3/BKC8610200/30EP	24040072	6	200	125	250	363	37	1.7mΩ	3644A	UL94V0	M8
EB6 12V120FR	6/BKC8610120/30EP	24030071	12	120	520	107	263	43	5.26mΩ	2385A	UL94V0	M6
EB4 12V100FR	6/BKC8610098/30EP	24030070	12	100	395	110	285	35	5.94mΩ	2068A	UL94V0	M6



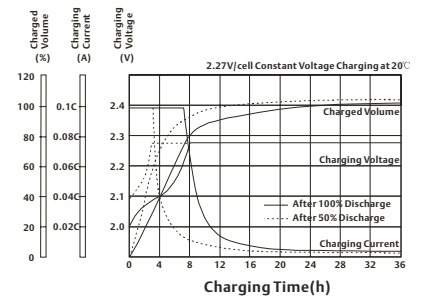
## Discharge Datasheet at Different Time

Constant Current to 1.70Vpc at 25°C, A												
Time/Hours	0.5	1	2	3	4	5	6	8	10	12	20	24
EB4 6V200&FR	253	141	78.8	56.4	44.2	36.8	31.6	25	20.8	18	11.7	10.2
EB4 12V100&FR	101	65.2	39.1	27.8	22	18.4	15.8	12.3	10.1	8.4	5.2	4.34
EB6 12V120&FR	118	79.3	45.3	32.6	25.9	21.5	18.6	14.6	12.1	10.3	6.14	5.09
Constant Current to 1.75Vpc at 25°C, A												
EB4 6V200&FR	245	138.8	78	55.8	43.8	36.4	31.4	24.8	20.7	17.9	11.7	10.2
EB4 12V100&FR	99.6	64.5	38.8	27.5	21.8	18.3	15.7	12.2	10.1	8.3	5.2	4.3
EB6 12V120&FR	115	77.5	44.5	32.1	25.5	21.2	18.4	14.5	12.1	10.3	6.1	5.1
Constant Current to 1.80Vpc at 25°C, A												
EB4 6V200&FR	235	135.4	76.7	55	43.4	36.2	31.2	24.6	20.5	17.7	11.6	10.0
EB4 12V100&FR	96.0	62.5	37.8	26.9	21.4	17.9	15.4	12.0	10.0	8.2	5.1	4.3
EB6 12V120&FR	112	75.8	43.6	31.5	25.1	20.9	18.2	14.3	11.9	10.2	6.1	5.1
Constant Power to 1.70Vpc at 25°C, Watts per cell												
EB4 6V200&FR	424	264	150	105	86	70	60.8	46	40	34	22.0	19.0
EB4 12V100&FR	181	120	74.8	53.8	42.7	35.6	31.0	24.1	20.0	16.5	10.3	8.6
EB6 12V120&FR	213	146	86.6	63.0	50.2	41.5	36.6	28.8	23.9	20.4	12.2	10.1
Constant Power to 1.75Vpc at 25°C, Watts per cell												
EB4 6V200&FR	410	260	148	104	85.0	69.0	60.2	45.5	39.6	33.8	22.0	18.8
EB4 12V100&FR	179	119	74.1	53.3	42.3	35.4	30.8	24.0	19.9	16.4	10.3	8.6
EB6 12V120&FR	207	143	85.0	62.1	49.5	41.1	36.2	28.5	23.8	20.2	12.2	10.1
Constant Power to 1.80Vpc at 25°C, Watts per cell												
EB4 6V200&FR	388	255	146	102	84.0	68.0	59.6	44.8	39.4	33.6	21.8	18.6
EB4 12V100&FR	172.7	115	72.2	52.1	41.5	34.7	30.3	23.6	19.6	16.2	10.2	8.5
EB6 12V120&FR	201.7	140	83.4	61.0	48.7	40.5	35.7	28.2	23.5	20.0	12.1	10.0

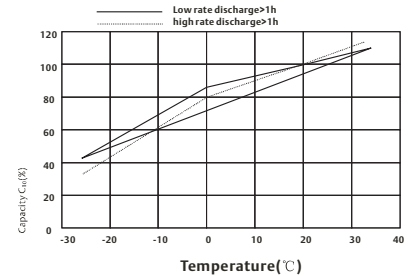
## Float Voltage & Charging

- Constant voltage charging is recommended
- Recommended float charge voltage: 2.27VPC @20 ~ 25 °C
- Float voltage range: 2.25 to 2.30 VPC @20 ~ 25 °C
- Cyclic application charge voltage; 2.40VPC

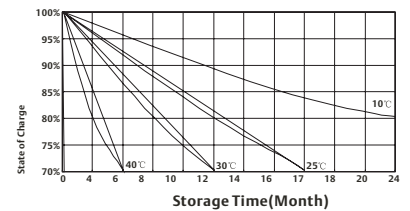
## Charge Characteristics



## Discharge Characteristic under different temperature



## Storage Characteristic



**Emerson Network Power.**  
The global leader in enabling business-critical continuity.

- AC Power Systems
- Connectivity
- DC Power Systems

- Embedded Power
- Inbound Power
- Integrated Cabinet Solutions

- Outside Plant
- Precision Cooling
- Site Monitoring and Services