

Excellence Battery

100Ah / 200Ah



Benefits

- Optimize your energy storage foot print with a high density battery
- Leverage the same battery solution for both standby and mild cyclic applications
- Stretch your budget with a 15 year operational life at 20°C
- Confidently deploy in a wide range of applications with IEC60896 and UL94-HB certifications

Excellence VRLA batteries have the convenience of front terminals coupled with long life and the ability to be deployed in harsh applications.

Quality measures and component choices in all design and manufacturing aspects produce a reliable and efficient battery. With a small footprint and extended life, Excellence batteries will deliver long term satisfaction in a wide variety of access applications.

General Specifications

Battery Model	Product Number 48V Battery String	Voltage (V)	C10 (Ah)	Length (mm)	Width (mm)	Height (mm)	Weight (Kg)	Internal Resistance	Short Circuit Current	Flame Retardant Rate	Connection
EB46V200	24/BKC8650200/118N	6	200	363	125	250	33.7	1.7m Ω	3529A	UL 94HB	F-M8
EB412V100	24/BKC8650100/118N	12	100	395	110	285	33.5	5.94m Ω	2022A	UL 94HB	F-M6



Constant Current Discharge Characteristics

Time / Hours	0.5	1	2	3	4	5	6	8	10	12	20	24
Constant Current to 1.70Vpc at 25 °C, A												
EB46V200	240	143	82.6	60.0	48.0	40.0	33.7	25.7	20.8	17.5	10.8	9.1
EB412V100	114.4	67.2	36.3	27.3	21.4	17.2	15.2	11.6	10.2	8.2	5.5	4.8

Constant Current to 1.75Vpc at 25 °C, A												
EB46V200	229	138	81.8	59.0	47.3	39.5	33.3	25.4	20.6	17.4	10.7	9.1
EB412V100	100.5	66.4	36.0	27.0	21.2	17.0	15.1	11.5	10.1	8.1	5.5	4.7

Constant Current to 1.80Vpc at 25 °C, A												
EB46V200	207	131	78	57	45.8	38.3	32.4	24.8	20.2	17.0	10.6	8.9
EB412V100	104.7	64.8	35.3	26.6	21.0	16.9	15.0	11.4	10.0	8.1	5.4	4.7

Constant Power to 1.70Vpc at 25 °C, Watts per Cell												
EB46V200	423	261	153	112	90.4	75.5	63.8	48.8	39.6	33.4	21.7	18.3
EB412V100	212	118.3	71.3	49.1	40.0	33.7	29.1	22.3	20.2	14.8	11.1	9.4

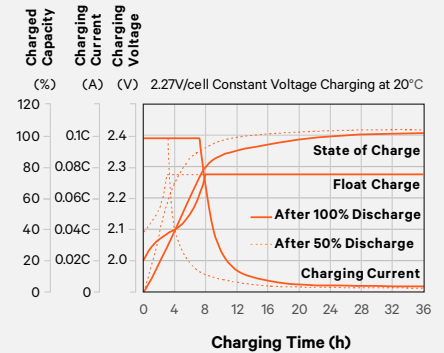
Constant Power to 1.75Vpc at 25 °C, Watts per Cell												
EB46V200	410	254	151	111	89.3	74.9	63.1	48.4	39.2	33.1	21.6	18.2
EB412V100	205	116.5	70.5	48.5	39.7	33.4	28.8	22.1	20.1	14.7	11.0	9.3

Constant Power to 1.80Vpc at 25 °C, Watts per Cell												
EB46V200	374	241	147	108	86.8	72.9	61.7	47.3	38.5	32.5	21.2	17.9
EB412V100	194.0	113.7	69.2	47.8	39.1	33.0	28.5	22.0	19.9	14.7	10.9	9.3

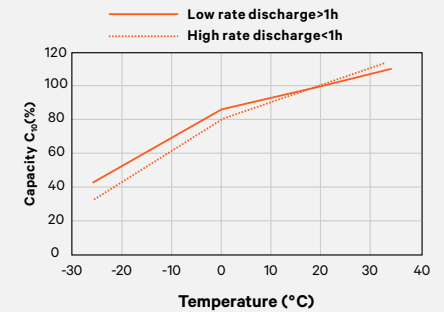
Float Voltage & Charging

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

Charge Characteristics



Discharge Characteristics under Different Temperatures



Storage Characteristics

