

# Duration Battery

40Ah / 100Ah / 165Ah / 190Ah / 200Ah



## Benefits

- Easily adapt to diverse site requirements with a range of capacities from 40Ah to 200Ah
- Simplify installation and maintenance with front terminal connections and integrated handles
- Stretch your budget with a 10 year operational life at 25°C
- Confidently deploy in a wide range of applications with IEC60896 and UL94-V0 certifications

*Duration VRLA batteries provide market leading value for telecom operators.*

This durable front access lead battery with top terminals is ideal for standby applications. Affordability with a standard telecom footprint make Duration batteries a perfect choice for access sites.

## 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
T12V40SEF/A	24/BKC8650040/118F	12	40	274	105	220	15	10.8m Ω	1111A	UL 94V0	F-M6
T12V100SEF/A	24/BKC8650100/118F	12	100	520	107	263	36	7.5m Ω	1600A	UL 94V0	F-M6
T12V165SEF/A	24/BKC8650165/118F	12	165	528	125	318	52.3	5.6m Ω	2143A	UL 94V0	F-M6
T12V190SEF/A	24/BKC8650191/118F	12	190	560	125	320	57	6.0m Ω	2000A	UL 94V0	F-M6
T12V200SEF/A	24/BKC8650202/118F	12	200	560	125	320	59	5.3m Ω	2264A	UL 94V0	F-M6



## Constant Current Discharge Characteristics

Time / Hours	0.5	1	2	3	4	5	6	8	10	12	20	24
<b>Constant Current to 1.70Vpc at 25 °C, A</b>												
T12V40SEF/A	43.2	24.5	15.1	11.1	8.9	7.2	6.4	5.0	4.2	3.6	2.3	2.0
T12V100SEF/A	96.0	62.1	36.4	26.6	21.3	17.9	15.9	12.4	10.3	9.0	5.7	4.9
T12V165SEF/A	168	102	58.8	42.6	34.1	28.9	24.3	19.6	16.8	14.0	9.0	7.5
T12V190SEF/A	189.0	108.3	61.5	50.0	39.6	32.9	28.3	23.3	19.4	16.7	10.7	9.2
T12V200SEF/A	198.9	114.0	64.7	52.7	41.7	34.7	29.9	24.6	20.4	17.6	11.2	9.6

Time / Hours	0.5	1	2	3	4	5	6	8	10	12	20	24
<b>Constant Current to 1.75Vpc at 25 °C, A</b>												
T12V40SEF/A	41.6	24.0	14.8	10.9	8.8	7.1	6.3	4.9	4.1	3.5	2.3	1.9
T12V100SEF/A	92.2	61.3	35.9	26.3	21.1	17.8	15.7	12.4	10.2	9.0	5.7	4.8
T12V165SEF/A	158	100	58.2	42.2	33.8	28.7	24.2	19.6	16.8	13.8	8.9	7.5
T12V190SEF/A	188.0	106.0	60.1	49.2	38.9	32.5	28.1	23.0	19.2	16.6	10.7	9.0
T12V200SEF/A	197.9	112.0	63.3	51.8	41.0	34.3	29.6	24.2	20.3	17.5	11.2	9.4

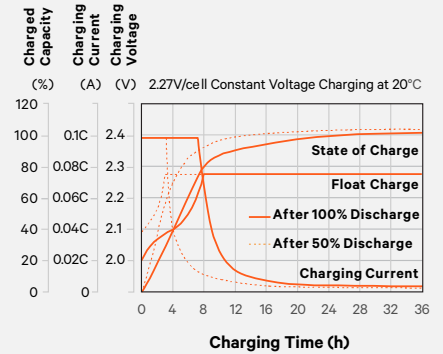
Time / Hours	0.5	1	2	3	4	5	6	8	10	12	20	24
<b>Constant Current to 1.80Vpc at 25 °C, A</b>												
T12V40SEF/A	39.7	23.5	14.4	10.7	8.6	7.0	6.2	4.8	4.0	3.4	2.2	1.8
T12V100SEF/A	86.5	58.9	34.9	25.7	20.6	17.4	15.5	12.4	10.2	8.9	5.6	4.8
T12V165SEF/A	142	95.3	56.6	41.4	33.3	28.2	23.9	19.4	16.5	13.6	8.7	7.3
T12V190SEF/A	175.5	99.7	57.7	48.0	37.8	31.7	27.4	22.7	19.1	16.4	10.5	9.0
T12V200SEF/A	184.7	104.9	60.7	50.5	39.8	33.4	28.9	23.9	20.2	17.3	11.0	9.4

Time / Hours	0.5	1	2	3	4	5	6	8	10	12	20	24
<b>Constant Power to 1.70Vpc at 25 °C, Watts per Cell</b>												
T12V40SEF/A	86.8	51.6	29.8	21.7	17.2	14.3	12.6	9.9	8.3	7.3	4.6	3.9
T12V100SEF/A	183	121	71.5	52.4	42.1	35.4	31.4	24.8	20.5	18.1	11.4	9.7
T12V165SEF/A	310	193	114	83.2	66.9	56.8	47.9	38.8	33.3	27.7	17.8	15.0
T12V190SEF/A	352.1	205.7	121.3	100.0	79.3	65.9	57.8	47.3	39.4	34.0	21.4	18.2
T12V200SEF/A	370.4	216.5	127.7	105.4	83.6	69.4	60.9	49.8	41.6	35.8	22.4	19.0

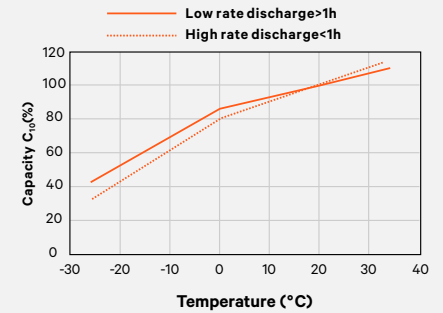
Time / Hours	0.5	1	2	3	4	5	6	8	10	12	20	24
<b>Constant Power to 1.75Vpc at 25 °C, Watts per Cell</b>												
T12V40SEF/A	84.8	50.8	29.2	21.4	17.0	14.2	12.4	9.8	8.2	7.2	4.5	3.7
T12V100SEF/A	177	120	70.7	52.0	41.7	35.2	31.2	24.7	20.4	17.9	11.3	9.6
T12V165SEF/A	295	191	113	82.8	66.5	56.6	47.8	38.7	33.2	27.4	17.7	14.8
T12V190SEF/A	350.2	203.2	119.2	98.3	78.0	65.1	56.9	46.9	39.2	33.7	21.4	18.2
T12V200SEF/A	368.6	214.7	125.5	103.6	82.2	68.6	60.0	49.4	41.3	35.6	22.2	18.8

Time / Hours	0.5	1	2	3	4	5	6	8	10	12	20	24
<b>Constant Power to 1.80Vpc at 25 °C, Watts per Cell</b>												
T12V40SEF/A	79.2	49.6	28.9	20.8	16.8	14.0	12.3	9.8	8.4	7.1	4.4	3.7
T12V100SEF/A	167	115	68.9	50.8	41.0	34.7	30.8	24.7	20.4	17.9	11.2	9.6
T12V165SEF/A	268	183	111	81.3	65.6	55.8	47.3	38.4	32.7	27.0	17.3	14.5
T12V190SEF/A	327.0	189.8	113.9	97.0	75.7	63.4	55.7	46.0	38.8	33.5	21.3	18.1
T12V200SEF/A	344.2	199.8	119.9	102.0	79.8	66.8	58.7	48.5	41.1	35.3	22.0	18.8

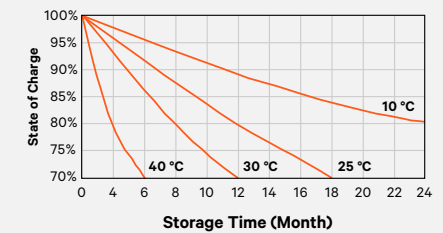
### Charge Characteristics



### Discharge Characteristics under Different Temperatures



### Storage Characteristics



## 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

Vertiv.com | Vertiv Infrastructure Limited, George Curl Way, Southampton, SO18 2RY, VAT Number: GB188146827

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