

UNIGYII RAILWAY BUYERS GUIDE

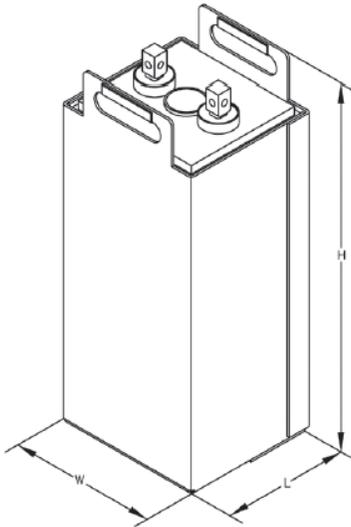


Features and Benefits

- **Container and Cover:** Impact-resistant polypropylene 28% L.O.I.
- **Microcat® Catalyst** lowers float current, mitigates thermal buildup and cell dryout
- **Separators:** Microporous glass mat
- **Plates formed with IPF™ technology** to assure consistent cell to cell performance
- **Shipped at 100% Capacity**
- **Cycle Life:** 2400 cycles @ 20% DOD
- **Modules coated and protected with a thick layer of powdered epoxy**
- **Terminals:** Lead plated solid copper

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AVR45 Cell Information



CELL TYPE	AVR45 Single Cell Can Dimensions							
	Length		Width		Height		Weight	
	in.	mm.	in.	mm.	in.	mm.	lb.	kg.
AVR45-5	2.25	57.2	6.70	170.1	16.11	409.1	26	12
AVR45-7	3.00	76.1	6.70	170.1	16.11	409.1	34	15
AVR45-9	3.75	95.1	6.70	170.1	16.11	409.1	42	19
AVR45-11	4.50	114.2	6.70	170.1	16.11	409.1	50	23
AVR45-13	5.25	133.2	6.70	170.1	16.11	409.1	58	26
AVR45-15	6.00	152.3	6.70	170.1	16.11	409.1	66	30
AVR45-17	6.75	171.3	6.70	170.1	16.11	409.1	74	34
AVR45-19	7.50	190.4	6.70	170.1	16.11	409.1	82	37
AVR45-21	8.25	209.4	6.70	170.1	16.11	409.1	90	41
AVR45-23	9.00	228.5	6.70	170.1	16.11	409.1	98	44
AVR45-25	9.75	247.5	6.70	170.1	16.11	409.1	106	48
AVR45-27	10.50	266.6	6.70	170.1	16.11	409.1	114	52
AVR45-29	11.25	285.6	6.70	170.1	16.11	409.1	122	56
AVR45-31	12.00	304.7	6.70	170.1	16.11	409.1	130	59
AVR45-33	12.75	323.7	6.70	170.1	16.11	409.1	138	63

Inventoried cells include AVR45-09,13,15,23, and 31

CELL TYPE	AMP HR. C8	Ratings in Amperes at 77°F (25°C) to											
		1.75 v.p.c.				1.78 v.p.c.				1.81 v.p.c.			
		8 HR.	10 HR.	24 HR.	100 HR.	8 HR.	10 HR.	24 HR.	100 HR.	8 HR.	10 HR.	24 HR.	100 HR.
AVR45-5	91	11.4	9.6	4.58	1.21	11.3	9.49	4.52	1.21	11.2	9.34	4.49	1.2
AVR45-7	137	17.1	14.4	6.88	1.81	17.0	14.2	6.79	1.81	16.8	14.0	6.73	1.8
AVR45-9	183	22.9	19.2	9.17	2.42	22.6	19.0	9.05	2.41	22.4	18.7	8.89	2.39
AVR45-11	229	28.6	24.0	11.5	3.02	28.3	23.7	11.3	3.01	27.9	23.4	11.2	2.99
AVR45-13	274	34.3	28.8	13.8	3.63	34.0	28.5	13.6	3.62	33.5	28.0	13.5	3.59
AVR45-15	320	40.0	33.6	16.0	4.23	39.6	33.2	15.8	4.22	39.1	32.7	15.7	4.19
AVR45-17	366	45.7	38.4	18.3	4.84	45.3	37.9	18.1	4.82	44.7	37.4	18	4.79
AVR45-19	411	51.4	43.2	20.6	5.44	50.9	42.7	20.4	5.42	50.3	42.0	20.2	5.39
AVR45-21	457	57.1	48.0	22.9	6.05	56.6	47.4	22.6	6.03	55.9	46.7	22.4	5.99
AVR45-23	503	62.9	52.8	25.2	6.65	62.3	52.2	24.9	6.63	61.5	51.4	24.7	6.58
AVR45-25	549	68.6	57.6	27.5	7.26	67.9	56.9	27.1	7.23	67.1	56.1	26.9	7.18
AVR45-27	594	74.3	62.4	29.8	7.86	73.6	61.7	29.4	7.84	72.7	60.7	29.2	7.78
AVR45-29	640	80.0	67.2	32.1	8.47	79.2	66.4	31.7	8.44	78.2	65.4	31.4	8.38
AVR45-31	686	85.7	72.0	34.4	9.07	84.9	71.1	33.9	9.04	83.8	70.1	33.7	8.98
AVR45-33	731	91.4	76.8	36.7	9.68	90.6	75.9	36.2	9.64	89.4	74.7	35.9	9.58

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Component Ordering

AVR45 Series Single Cell Railway 1-Cell Assembly

Plate Size	System Part #**
5	JSCU4505-1LCARR
7	JSCU4507-1LCARR
9	JSCU4509-1LCARR
11	JSCU4511-1LCARR
13	JSCU4513-1LCARR
15	JSCU4515-1LCARR
17	JSCU4517-1LCARR
19	JSCU4519-1LCARR
21	JSCU4521-1LCARR
23	JSCU4523-1LCARR
25	JSCU4525-1LCARR
27	JSCU4527-1LCARR
29	JSCU4529-1LCARR
31	JSCU4531-1LCARR
33	JSCU4533-1LCARR

** = Each system part # consists of:
Quantity of 1 cell
Connection Kit of cables & hardware

AVR45 Series Single Cell Railway 6-Cell Assembly

Plate Size	System Part #**
5	JSCU4505-6LCARR
7	JSCU4507-6LCARR
9	JSCU4509-6LCARR
11	JSCU4511-6LCARR
13	JSCU4513-6LCARR
15	JSCU4515-6LCARR
17	JSCU4517-6LCARR
19	JSCU4519-6LCARR
21	JSCU4521-6LCARR
23	JSCU4523-6LCARR
25	JSCU4525-6LCARR
27	JSCU4527-6LCARR
29	JSCU4529-6LCARR
31	JSCU4531-6LCARR
33	JSCU4533-6LCARR

** = Each system part # consists of:
Quantity of 6 cells
Connection Kit of cables & hardware

AVR45 Series Single Cell Railway 1-Cell Connection Kit

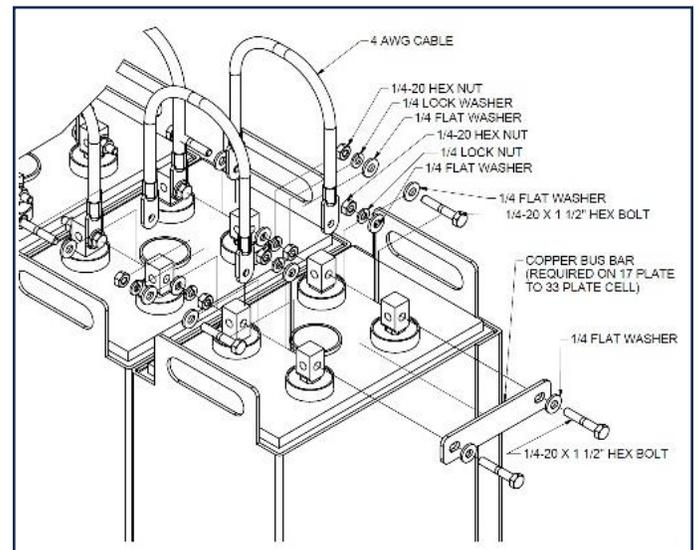
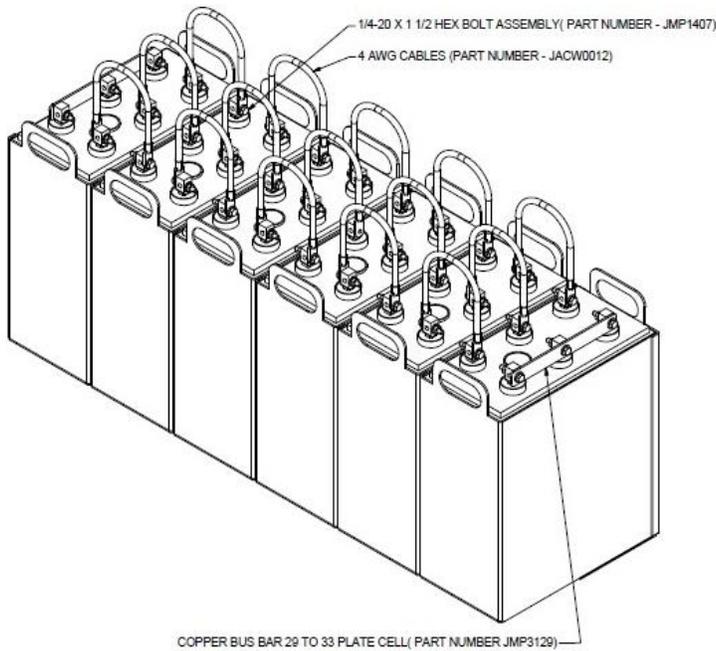
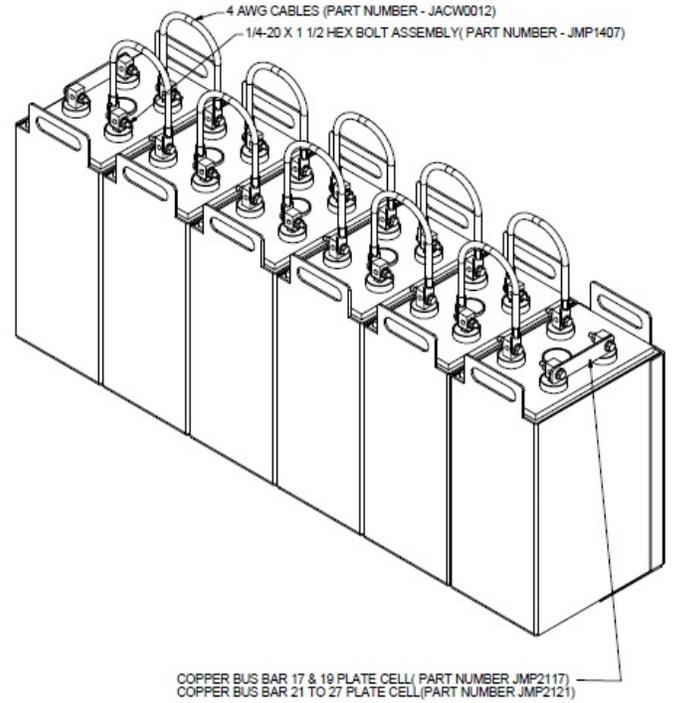
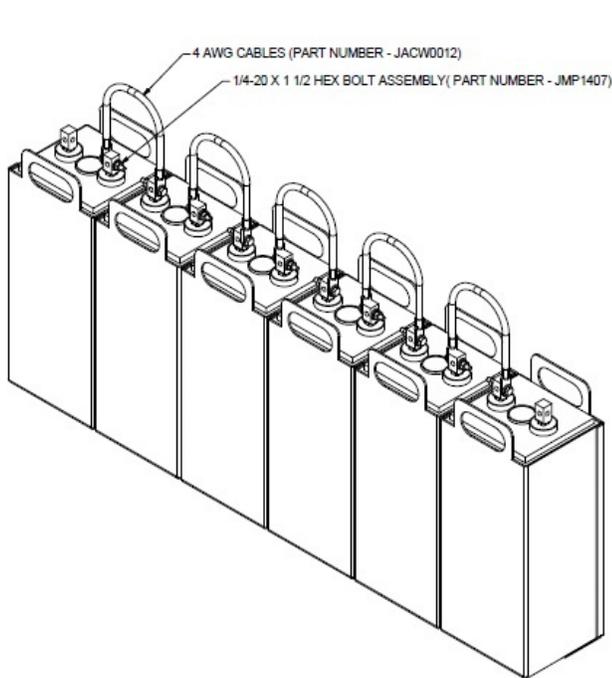
Plate Size	Assembly Part #
5 to 15	JPK0005
	Contains:
	1 - JRR0012 (Cable)
	1 - JMH2400 (Manual)
17 to 19	JPK0006
	Contains:
	2 - JRR0012 (Cable)
	1 - JMH2400 (Manual)
21 to 27	JPK0007
	Contains:
	2 - JRR0012 (Cable)
	1 - JMH2400 (Manual)
29 to 33	JPK0008
	Contains:
	3 - JRR0012 (Cable)
	1 - JMH2400 (Manual)

AVR45 Series Single Cell Railway 6-Cell Connection Kit

Plate Size	Assembly Part #
5 to 15	JPK0001
	Contains:
	5 - JRR0012 (Cable)
	1 - JMH2400 (Manual)
17 to 19	JPK0002
	Contains:
	10 - JRR0012 (Cable)
	2 - JMP2117 (Connector)
21 to 27	JPK0003
	Contains:
	10 - JRR0012 (Cable)
	2 - JMP2121 (Connector)
29 to 33	JPK0004
	Contains:
	15 - JRR0012 (Cable)
	2 - JMP3129 (Connector)
	1 - JMH2400 (Manual)

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Component Assembly

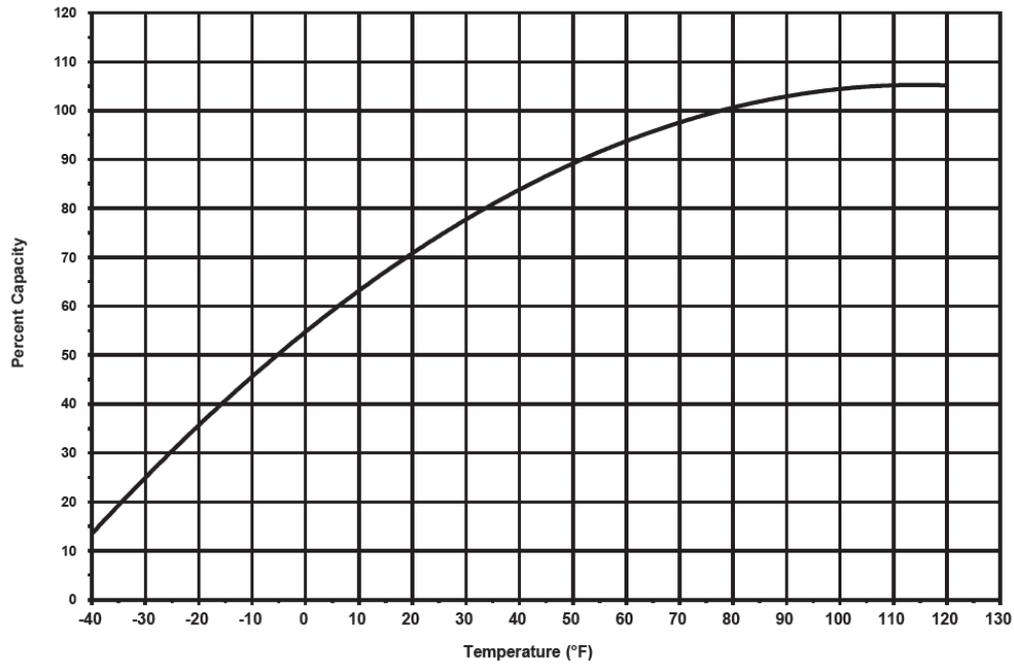


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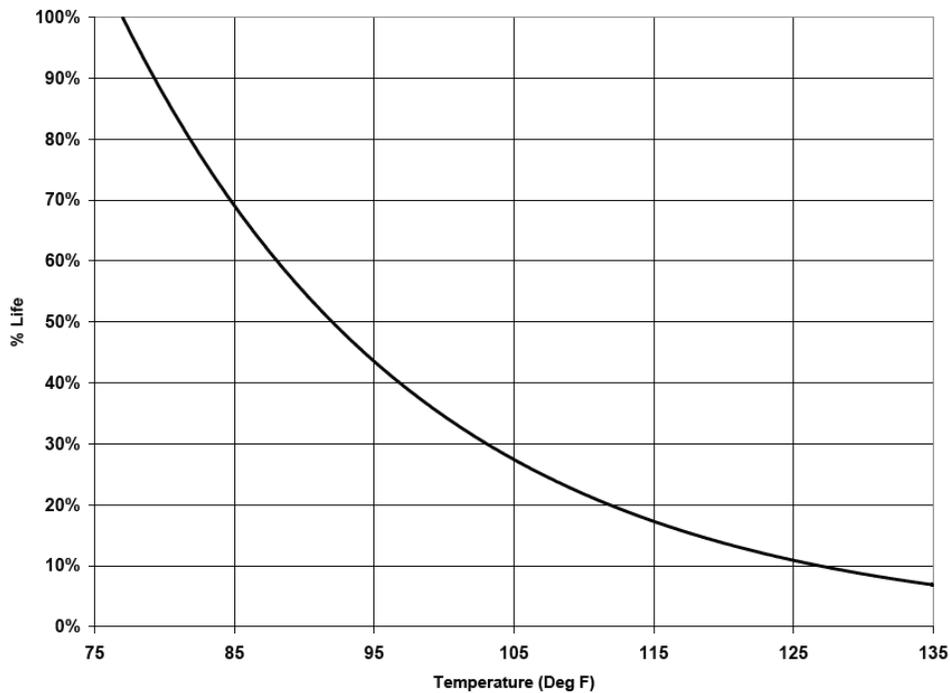
Unigy II - Temperature Effects on Capacity
(Discharges 1 Hr to 100 Hr)

December 30, 2021
Rev. 1



Temperature vs. Life
Unigy Batteries

January 8, 2008
Rev 0



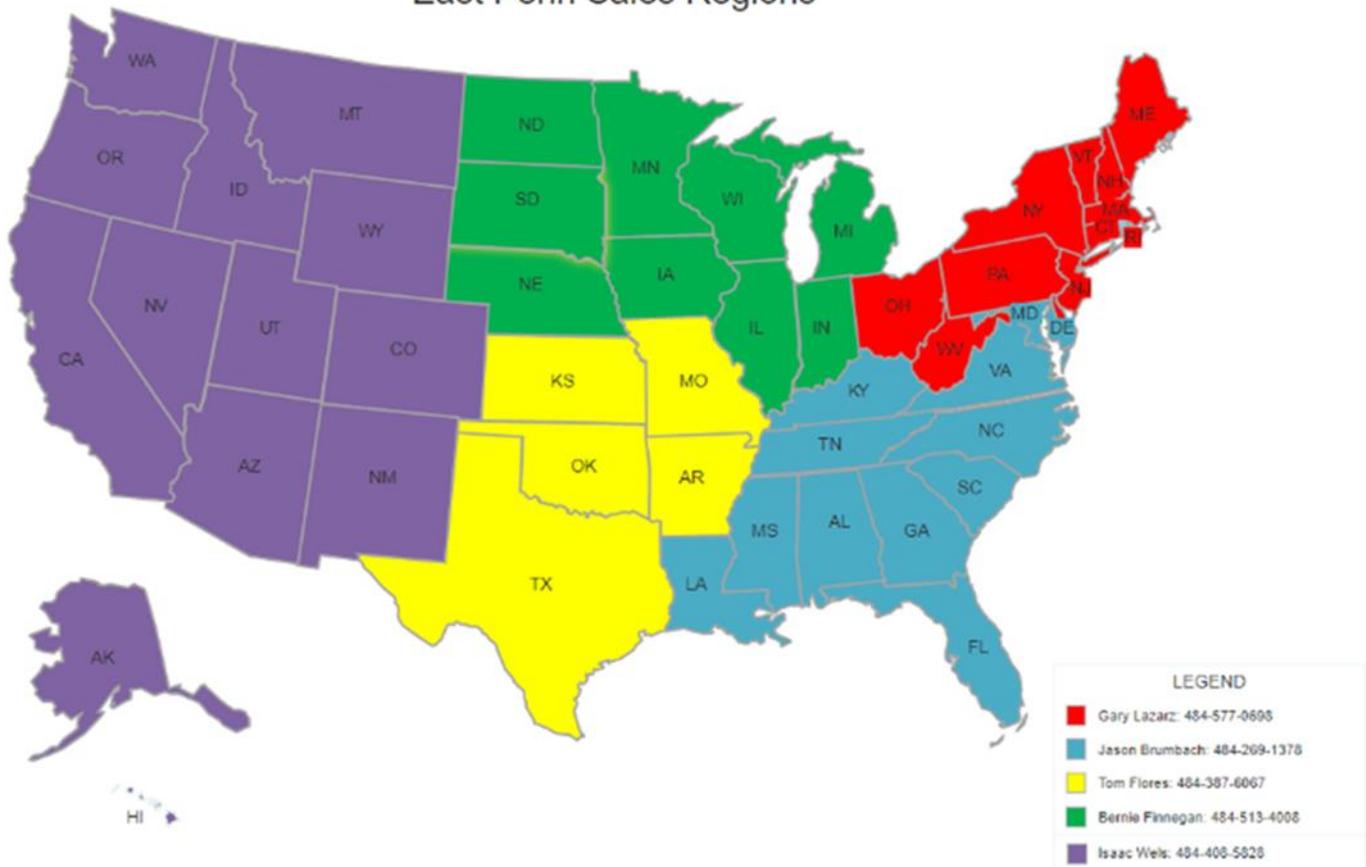
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[AVR45 Amp Ratings](#)

[AVR45 Watt Ratings](#)

[AVR45 Single Cell Railway I&O Manual](#)

East Penn Sales Regions



Customer Technical Support:

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Deka Services – EF&I Solution Provider

[Installation, Maintenance, Capacity Testing](#)