

## RAILWAY BUYERS GUIDE



### Exclusive Thermal Management Technology System

- **Helios™ Additive** – Exclusive additive reduces float current up to 75% enhancing high temperature life
- **Microcat® Catalyst** - Lowers float current, mitigates thermal buildup and cell dryout
- **IPF® Technology** – Exclusive process optimizes capacity, cell consistency and long term reliability
- **TempX™ Alloy** – Optimized positive alloy inhibits corrosion under the highest temperature extremes
- **Completely Recyclable** – Fully recyclable to reclaim lead, acid, and plastics

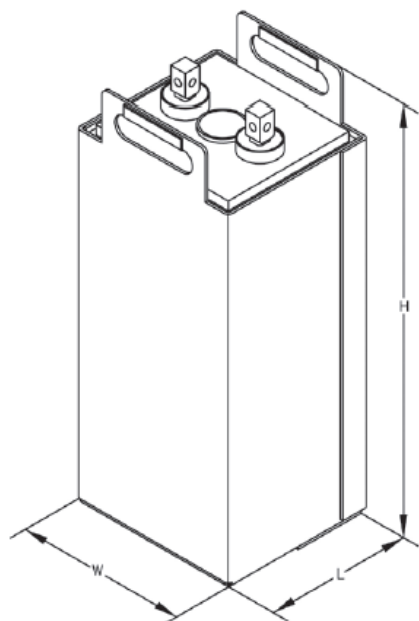


### Features and Benefits

- **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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## HT45 Cell Information



| CELL TYPE | HT45 SINGLE CELL CAN DIMENSIONS |       |       |       |        |       |        |     |
|-----------|---------------------------------|-------|-------|-------|--------|-------|--------|-----|
|           | LENGTH                          |       | WIDTH |       | HEIGHT |       | WEIGHT |     |
|           | IN.                             | MM.   | IN.   | MM.   | IN.    | MM.   | LB.    | KG. |
| HT45-5    | 2.25                            | 57.2  | 6.70  | 170.1 | 16.11  | 409.1 | 26     | 12  |
| HT45-7    | 3.00                            | 76.1  | 6.70  | 170.1 | 16.11  | 409.1 | 34     | 15  |
| HT45-9    | 3.75                            | 95.1  | 6.70  | 170.1 | 16.11  | 409.1 | 42     | 19  |
| HT45-11   | 4.50                            | 114.2 | 6.70  | 170.1 | 16.11  | 409.1 | 50     | 23  |
| HT45-13   | 5.25                            | 133.2 | 6.70  | 170.1 | 16.11  | 409.1 | 58     | 26  |
| HT45-15   | 6.00                            | 152.3 | 6.70  | 170.1 | 16.11  | 409.1 | 66     | 30  |
| HT45-17   | 6.75                            | 171.3 | 6.70  | 170.1 | 16.11  | 409.1 | 74     | 34  |
| HT45-19   | 7.50                            | 190.4 | 6.70  | 170.1 | 16.11  | 409.1 | 82     | 37  |
| HT45-21   | 8.25                            | 209.4 | 6.70  | 170.1 | 16.11  | 409.1 | 90     | 41  |
| HT45-23   | 9.00                            | 228.5 | 6.70  | 170.1 | 16.11  | 409.1 | 98     | 44  |
| HT45-25   | 9.75                            | 247.5 | 6.70  | 170.1 | 16.11  | 409.1 | 106    | 48  |
| HT45-27   | 10.50                           | 266.6 | 6.70  | 170.1 | 16.11  | 409.1 | 114    | 52  |
| HT45-29   | 11.25                           | 285.6 | 6.70  | 170.1 | 16.11  | 409.1 | 122    | 56  |
| HT45-31   | 12.00                           | 304.7 | 6.70  | 170.1 | 16.11  | 409.1 | 130    | 59  |
| HT45-33   | 12.75                           | 323.7 | 6.70  | 170.1 | 16.11  | 409.1 | 138    | 63  |

| CELL TYPE | AMP HR. | 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. |
| HT45-5    | 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     |
| HT45-7    | 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     |
| HT45-9    | 183     | 22.9                                 | 19.2   | 9.17   | 2.42    | 22.6        | 19.0   | 9.05   | 2.41    | 22.4        | 18.7   | 8.98   | 2.39    |
| HT45-11   | 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    |
| HT45-13   | 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    |
| HT45-15   | 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    |
| HT45-17   | 366     | 45.7                                 | 38.4   | 18.3   | 4.84    | 45.3        | 37.9   | 18.1   | 4.82    | 44.7        | 37.4   | 18.0   | 4.79    |
| HT45-19   | 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    |
| HT45-21   | 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    |
| HT45-23   | 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    |
| HT45-25   | 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    |
| HT45-27   | 594     | 74.3                                 | 62.4   | 29.8   | 7.86    | 73.6        | 61.7   | 29.9   | 7.84    | 72.7        | 60.7   | 29.2   | 7.78    |
| HT45-29   | 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    |
| HT45-31   | 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    |
| HT45-33   | 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

### Deka Fahrenheit 2V HT45 Series Single Cell Railway Single Cell Assembly

| Plate Size | System Part #** |
|------------|-----------------|
| 5          | JSCU4505H-1LCAR |
| 7          | JSCU4507H-1LCAR |
| 9          | JSCU4509H-1LCAR |
| 11         | JSCU4511H-1LCAR |
| 13         | JSCU4513H-1LCAR |
| 15         | JSCU4515H-1LCAR |
| 17         | JSCU4517H-1LCAR |
| 19         | JSCU4519H-1LCAR |
| 21         | JSCU4521H-1LCAR |
| 23         | JSCU4523H-1LCAR |
| 25         | JSCU4525H-1LCAR |
| 27         | JSCU4527H-1LCAR |
| 29         | JSCU4529H-1LCAR |
| 31         | JSCU4531H-1LCAR |
| 33         | JSCU4533H-1LCAR |

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

### Deka Fahrenheit 2V HT45 Series Single Cell Railway 6-Cell Assembly

| Plate Size | System Part #** |
|------------|-----------------|
| 5          | JSCU4505H-6LCAR |
| 7          | JSCU4507H-6LCAR |
| 9          | JSCU4509H-6LCAR |
| 11         | JSCU4511H-6LCAR |
| 13         | JSCU4513H-6LCAR |
| 15         | JSCU4515H-6LCAR |
| 17         | JSCU4517H-6LCAR |
| 19         | JSCU4519H-6LCAR |
| 21         | JSCU4521H-6LCAR |
| 23         | JSCU4523H-6LCAR |
| 25         | JSCU4525H-6LCAR |
| 27         | JSCU4527H-6LCAR |
| 29         | JSCU4529H-6LCAR |
| 31         | JSCU4531H-6LCAR |
| 33         | JSCU4533H-6LCAR |

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

### Deka Fahrenheit 2V HT45 Series Single Cell Railway 1-Cell Connection Kit

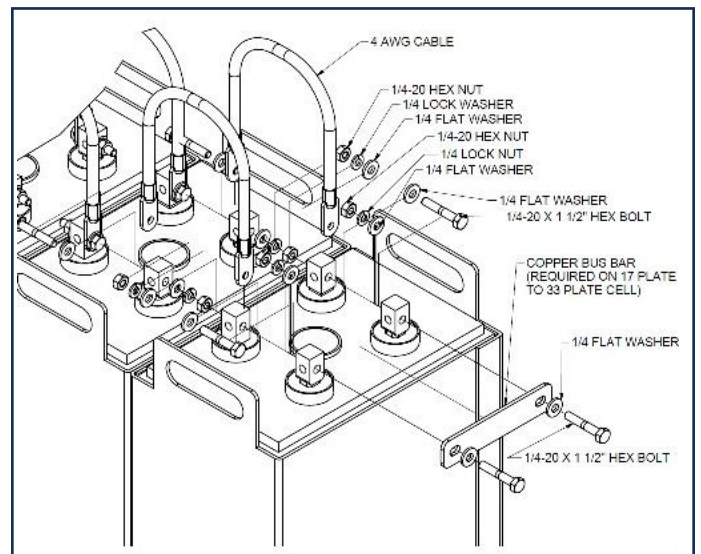
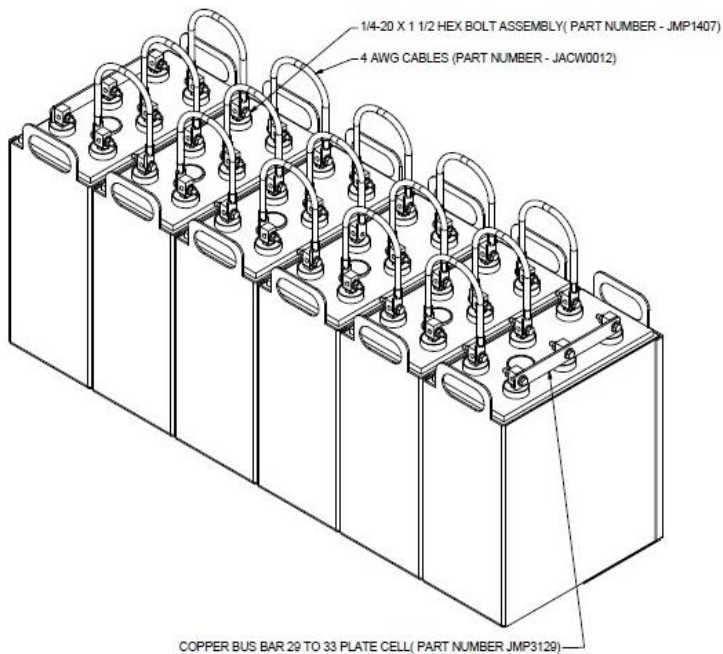
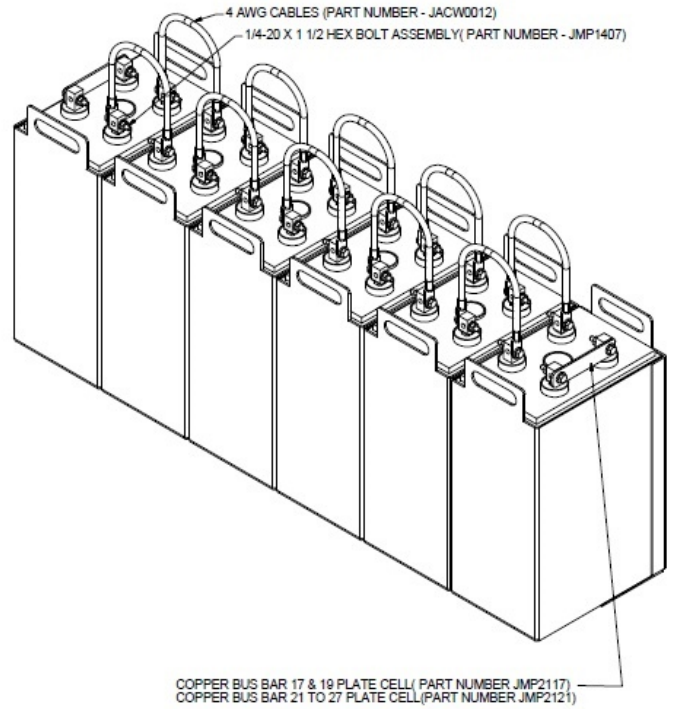
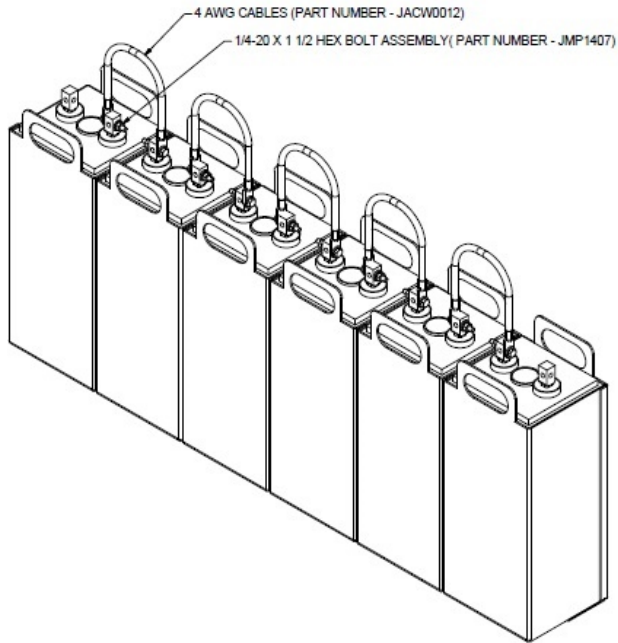
| Plate Size | Assembly Part #                             |
|------------|---|
| 5 to 15    | JPK0005                                     |
|            | Contains:                                   |
|            | 1 - JRR0012 (Cable)<br>1 - JMH2727 (Manual) |
| 17 to 19   | JPK0006                                     |
|            | Contains:                                   |
|            | 2 - JRR0012 (Cable)<br>1 - JMH2727 (Manual) |
| 21 to 27   | JPK0007                                     |
|            | Contains:                                   |
|            | 2 - JRR0012 (Cable)<br>1 - JMH2727 (Manual) |
| 29 to 33   | JPK0008                                     |
|            | Contains:                                   |
|            | 3 - JRR0012 (Cable)<br>1 - JMH2727 (Manual) |

### Deka Fahrenheit 2V HT45 Series Single Cell Railway 6-Cell Connection Kit

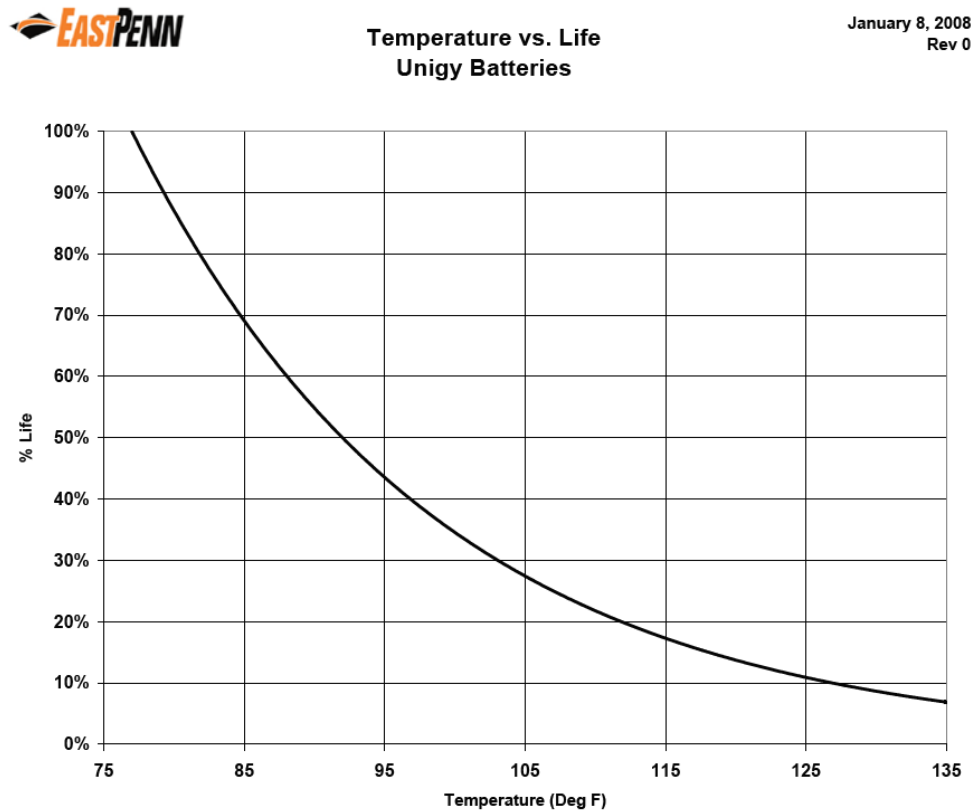
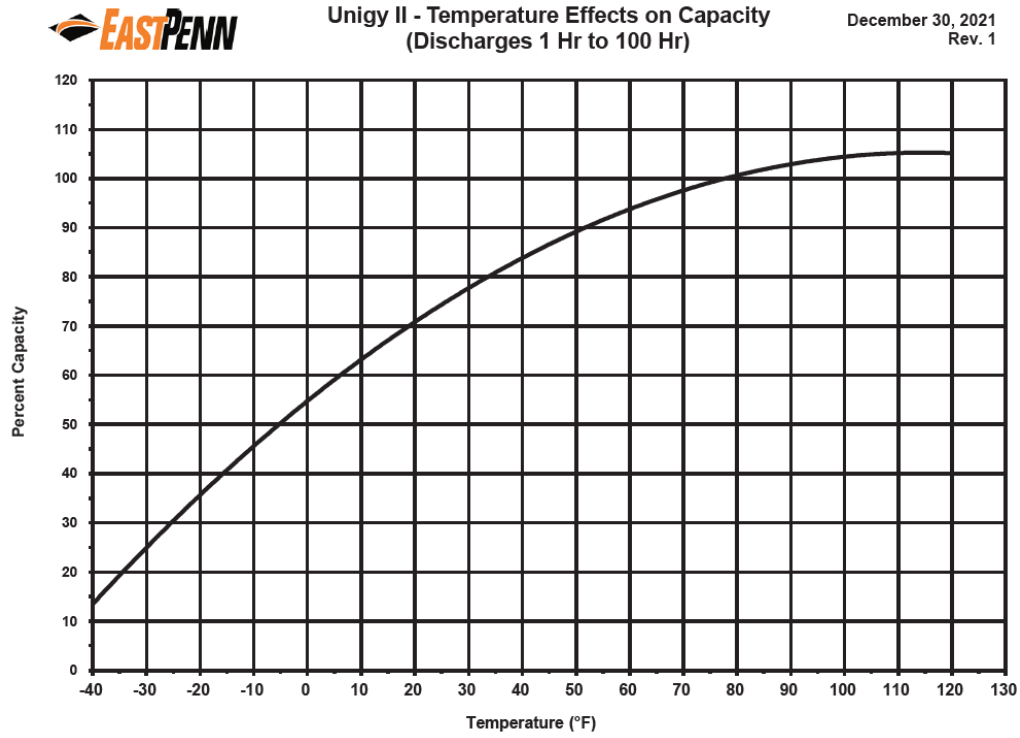
| Plate Size | Assembly Part #   |
|------------|---|
| 5 to 15    | JPK0001   |
|            | Contains:   |
|            | 5 - JRR0012 (Cable)<br>1 - JMH2727 (Manual)                             |
| 17 to 19   | JPK0002   |
|            | Contains:   |
|            | 10 - JRR0012 (Cable)<br>2 - JMP2117 (Connector)<br>1 - JMH2727 (Manual) |
| 21 to 27   | JPK0003   |
|            | Contains:   |
|            | 10 - JRR0012 (Cable)<br>2 - JMP2121 (Connector)<br>1 - JMH2727 (Manual) |
| 29 to 33   | JPK0004   |
|            | Contains:   |
|            | 15 - JRR0012 (Cable)<br>2 - JMP3129 (Connector)<br>1 - JMH2727 (Manual) |

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## Component Assembly



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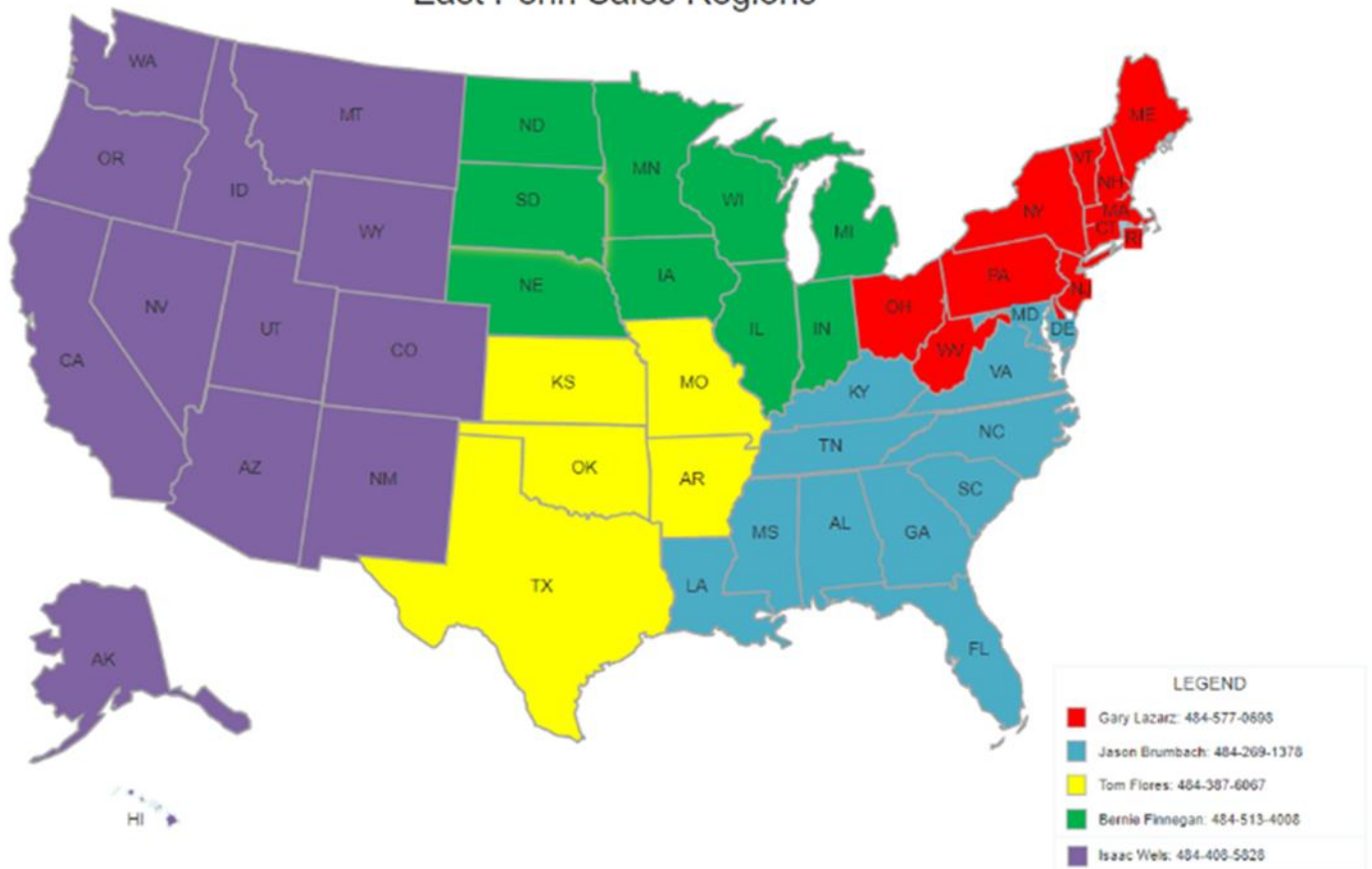
## RAILWAY BUYERS GUIDE

[HT45 Amp Ratings](#)

[HT45 Watt Ratings](#)

[HT45 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](#)