

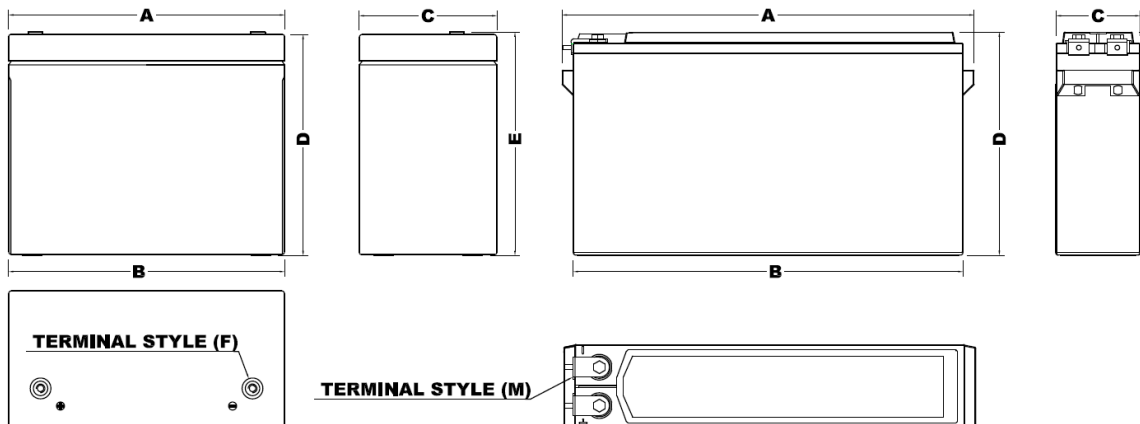


Reliable Battery Solutions

## HRL-Series Competitive Cross Reference

| TOP TERMINAL |    |                                   |                                    |                                     |                      |      |                     |      |               |     |                |      |                                |      |        |     |
|--------------|----|-----------------------------------|------------------------------------|-------------------------------------|----------------------|------|---------------------|------|---------------|-----|----------------|------|--------------------------------|------|--------|-----|
| Model        | V  | Ah<br>20hr<br>1.75<br>vpc<br>77°F | wpc<br>5min<br>1.67<br>vpc<br>77°F | wpc<br>15min<br>1.67<br>vpc<br>77°F | Total Length<br>(A.) |      | Base Length<br>(B.) |      | Width<br>(C.) |     | Height<br>(D.) |      | Height Top of<br>Terminal (E.) |      | Weight |     |
|              |    |                                   |                                    |                                     | mm                   | in   | mm                  | in   | mm            | in  | mm             | in   | mm                             | in   | Kg     | Lbs |
| 12HRL36      | 12 | 8                                 | 60                                 | 36                                  | 151                  | 5.9  | 151                 | 5.9  | 65            | 2.6 | 95             | 3.7  | 101                            | 4.0  | 9      | 20  |
| 12HRL50      | 12 | 12                                | 101                                | 50                                  | 151                  | 5.9  | 151                 | 5.9  | 98            | 3.9 | 95             | 3.7  | 100                            | 3.9  | 4      | 9   |
| 12HRL80      | 12 | 19                                | 164                                | 80                                  | 181                  | 7.1  | 181                 | 7.1  | 76            | 3.0 | 167            | 6.6  | 167                            | 6.6  | 6      | 14  |
| 12HRL100     | 12 | 28                                | 205                                | 100                                 | 166                  | 6.5  | 166                 | 6.5  | 125           | 4.9 | 175            | 6.9  | 175                            | 6.9  | 10     | 22  |
| 12HRL140     | 12 | 33                                | 276                                | 140                                 | 195                  | 7.7  | 195                 | 7.7  | 130           | 5.1 | 158            | 6.2  | 180                            | 7.1  | 12     | 27  |
| 12HRL150     | 12 | 42                                | 307                                | 150                                 | 196                  | 7.7  | 196                 | 7.7  | 165           | 6.5 | 170            | 6.7  | 170                            | 6.7  | 15     | 32  |
| 12HRL200     | 12 | 56                                | 430                                | 210                                 | 230                  | 9.1  | 230                 | 9.1  | 138           | 5.4 | 208            | 8.2  | 215                            | 8.5  | 19     | 41  |
| 12HRL300     | 12 | 75                                | 586                                | 300                                 | 261                  | 10.3 | 261                 | 10.3 | 173           | 6.8 | 201            | 7.9  | 205                            | 8.1  | 26     | 57  |
| 12HRL365     | 12 | 93                                | 747                                | 365                                 | 304                  | 12.0 | 304                 | 12.0 | 168           | 6.6 | 208            | 8.2  | 215                            | 8.5  | 30     | 67  |
| 12HRL400     | 12 | 100                               | 827                                | 400                                 | 337                  | 13.3 | 324                 | 12.8 | 173           | 6.8 | 213            | 8.4  | 215                            | 8.5  | 34     | 75  |
| 12HRL550     | 12 | 140                               | 983                                | 550                                 | 337                  | 13.3 | 324                 | 12.8 | 173           | 6.8 | 276            | 10.9 | 278                            | 10.9 | 45     | 99  |
| 6HRL700      | 6  | 193                               | 1082                               | 702                                 | 321                  | 12.6 | 321                 | 12.6 | 176           | 6.9 | 226            | 8.9  | 229                            | 9.0  | 33     | 72  |

| FRONT TERMINAL |    |                                |                                |                                 |                      |      |                     |      |               |     |                |      |        |     |
|----------------|----|--------------------------------|--------------------------------|---------------------------------|----------------------|------|---------------------|------|---------------|-----|----------------|------|--------|-----|
| Model          | V  | Ah<br>20hr<br>1.75 vpc<br>77°F | wpc<br>5min<br>1.67vpc<br>77°F | wpc<br>15min<br>1.67vpc<br>77°F | Total Length<br>(A.) |      | Base Length<br>(B.) |      | Width<br>(C.) |     | Height<br>(D.) |      | Weight |     |
|                |    |                                |                                |                                 | mm                   | in   | mm                  | in   | mm            | in  | mm             | in   | Kg     | Lbs |
| 12HRL390       | 12 | 96                             | 666                            | 390                             | 511                  | 20.1 | 486                 | 19.1 | 110           | 4.3 | 238            | 9.4  | 34     | 75  |
| 12HRL600       | 12 | 153                            | 1030                           | 600                             | 558                  | 22.0 | 529                 | 20.8 | 125           | 4.9 | 316            | 12.5 | 51     | 113 |
| 12HRL700       | 12 | 193                            | 1082                           | 702                             | 558                  | 22.0 | 528                 | 20.8 | 125           | 4.9 | 316            | 12.5 | 59     | 130 |



| Company                                                                                                  | Model                      | WPC @15 min | L (in.) | W (in.) | H (in.) | Wt. (lbs) | V  | Narada Model |
|----------------------------------------------------------------------------------------------------------|----------------------------|-------------|---------|---------|---------|-----------|----|--------------|
| C&D                                                                                                      | UPS12-100MR                | 90.9        | 6.54    | 5.17    | 6.86    | 21        | 12 | 12HRL100     |
| C&D                                                                                                      | UPS12-150MR                | 148         | 7.76    | 5.19    | 6.8     | 27.3      | 12 | 12HRL140     |
| C&D                                                                                                      | UPS12-210MR                | 206         | 9       | 5.48    | 8.07    | 40        | 12 | 12HRL200     |
| C&D                                                                                                      | UPS12-270FR                | 282         | 10.17   | 6.65    | 8.82    | 57        | 12 | 12HRL300     |
| C&D                                                                                                      | UPS12-300MR                | 300         | 10.27   | 6.83    | 8.01    | 58.4      | 12 | 12HRL300     |
| C&D                                                                                                      | UPS12-310FR                | 329         | 11.95   | 6.65    | 9.05    | 67        | 12 | 12HRL365     |
| C&D                                                                                                      | UPS12-350MR                | 350         | 12.04   | 6.83    | 8.06    | 67.4      | 12 | 12HRL365     |
| C&D                                                                                                      | UPS12-355PLP               | 355         | 12.04   | 6.83    | 8.06    | 67.4      | 12 | 12HRL365     |
| C&D                                                                                                      | UPS12-335MRF FA            | 358         | 20.1    | 4.3     | 9.3     | 80        | 12 | 12HRL390     |
| C&D                                                                                                      | UPS12-370FR                | 370         | 12.74   | 6.58    | 9.48    | 74        | 12 | 12HRL365     |
| C&D                                                                                                      | UPS12-400MR                | 400         | 13.42   | 6.8     | 8.52    | 75.8      | 12 | 12HRL400     |
| C&D                                                                                                      | UPS12-410MRXF FA           | 410         | 20.1    | 4.3     | 9.1     | 81.8      | 12 | 12HRL390     |
| C&D                                                                                                      | UPS12-475FR*               | 475         | 13.57   | 6.73    | 10.81   | 100       | 12 | 12HRL550     |
| C&D                                                                                                      | UPS12-490MR*               | 488         | 13.57   | 6.8     | 10.93   | 100       | 12 | 12HRL550     |
| C&D                                                                                                      | UPS12-540MR<br>UPS12-540FR | 537         | 13.57   | 6.8     | 10.93   | 100       | 12 | 12HRL550     |
| C&D                                                                                                      | UPS12-615MRF FA            | 614         | 22.01   | 4.95    | 11.7    | 115       | 12 | 12HRL600     |
| C&D                                                                                                      | UPS6-620MR<br>UPS6-620FR   | 601         | 12.63   | 6.97    | 8.94    | 109       | 6  | 6HRL700      |
| C&D                                                                                                      | UPS12-700MRF FA            | 697         | 22.01   | 4.95    | 12.6    | 131       | 12 | 12HRL700     |
| Check Narada Datasheet Drawing for Fitment - Referenced battery base dimension smaller than total length |                            |             |         |         |         |           |    |              |

| Company                                                                                                  | Model        | WPC @15 min | L (in.) | W (in.) | H (in.) | Wt. (lbs) | V  | Narada Model |
|----------------------------------------------------------------------------------------------------------|--------------|-------------|---------|---------|---------|-----------|----|--------------|
| CSB                                                                                                      | HRL12110WFR  | 110.8       | 7.13    | 4.92    | 6.89    | 21.83     | 12 | 12HRL100     |
| CSB                                                                                                      | HRL12150W    | 155         | 7.7     | 5.12    | 6.77    | 25.9      | 12 | 12HRL140     |
| CSB                                                                                                      | HRL12150WFR  | 155.8       | 7.7     | 5.12    | 8.161   | 25.9      | 12 | 12HRL140     |
| CSB                                                                                                      | HRL12200W    | 215         | 8.97    | 5.45    | 6.16    | 38.8      | 12 | 12HRL200     |
| CSB                                                                                                      | HRL12200WFR  | 205.8       | 8.97    | 5.45    | 8.161   | 56.88     | 12 | 12HRL200     |
| CSB                                                                                                      | HRL12280W    | 280         | 10.28   | 6.63    | 8.43    | 56.9      | 12 | 12HRL300     |
| CSB                                                                                                      | HRL122280WFR | 283.3       | 10.28   | 6.63    | 8.43    | 56.88     | 12 | 12HRL300     |
| CSB                                                                                                      | HRL12330W    | 350         | 12.15   | 6.65    | 8.44    | 65.5      | 12 | 12HRL365     |
| CSB                                                                                                      | HRL12330WFR  | 340         | 12.15   | 6.65    | 8.44    | 65.26     | 12 | 12HRL365     |
| CSB                                                                                                      | HRL12390W    | 398         | 13.46   | 6.69    | 8.57    | 72.8      | 12 | 12HRL400     |
| CSB                                                                                                      | HRL12390WFR  | 398         | 13.46   | 6.69    | 8.57    | 72.75     | 12 | 12HRL400     |
| CSB                                                                                                      | HXRL1212410W | 410         | 12.2    | 6.7     | 8.4     | 68.34     | 12 | 12HRL365     |
| CSB                                                                                                      | HXRL1212475W | 475         | 13.5    | 6.7     | 8.5     | 77.82     | 12 | 12HRL400     |
| CSB                                                                                                      | HRL12500W    | 503         | 13.5    | 6.69    | 10.93   | 100.8     | 12 | 12HRL550     |
| CSB                                                                                                      | HRL12500WFR  | 503         | 13.5    | 6.69    | 10.93   | 100.75    | 12 | 12HRL550     |
| CSB                                                                                                      | HRL12540W    | 540         | 13.5    | 6.69    | 10.85   | 96.76     | 12 | 12HRL550     |
| CSB                                                                                                      | HXRL1212620W | 620         | 13.5    | 6.7     | 10      | 104.06    | 12 | 12HRL550     |
| Check Narada Datasheet Drawing for Fitment - Referenced battery base dimension smaller than total length |              |             |         |         |         |           |    |              |

| Company       | Model            | WPC @15 min | L (in.) | W (in.) | H (in.) | Wt. (lbs) | V  | Narada Model |
|---------------|------------------|-------------|---------|---------|---------|-----------|----|--------------|
| EastPenn/Deka | U1HR1500         | 119         | 7.75    | 5.18    | 6.68    | 27        | 12 | 12HRL140     |
| EastPenn/Deka | 45HR2000         | 168         | 8.99    | 5.47    | 8.27    | 40        | 12 | 12HRL200     |
| EastPenn/Deka | HR3000 /24HR3000 | 310         | 10.2    | 6.59    | 8.24    | 61        | 12 | 12HRL300     |
| EastPenn/Deka | 27HR3500         | 314         | 12.93   | 6.8     | 8.24    | 74        | 12 | 12HRL365     |
| EastPenn/Deka | HR3500 /27HR3500 | 370         | 12.01   | 6.56    | 8.24    | 71.4      | 12 | 12HRL365     |
| EastPenn/Deka | HR 3500 ET F/A   | 370         | 19.44   | 4.35    | 9.09    | 75.5      | 12 | 12HRL390     |
| EastPenn/Deka | 31HR4000         | 377         | 12.93   | 6.75    | 8.7     | 74        | 12 | 12HRL365     |
| EastPenn/Deka | HR4000 /31HR4000 | 420         | 12.93   | 6.84    | 8.7     | 81        | 12 | 12HRL400     |
| EastPenn/Deka | HR5500           | 550         | 13.46   | 6.84    | 11.2    | 105.5     | 12 | 12HRL550     |
| EastPenn/Deka | HR5000 /31HR5000 | 475         | 13.46   | 6.84    | 11.21   | 97        | 12 | 12HRL550     |
| EastPenn/Deka | HR 5500 ET F/A   | 550         | 22      | 4.97    | 11.75   | 120       | 12 | 12HRL600     |
| EastPenn/Deka | HR 7500 ET F/A   | 750         | 24      | 4.97    | 12.74   | 150       | 12 | 12HRL700     |



Reliable Battery Solutions

HRL High Rate Series

| Company   | Model                                      | WPC @15 min | L (in.) | W (in.) | H (in.) | Wt. (lbs) | V  | Narada Model |
|-----------|--------------------------------------------|-------------|---------|---------|---------|-----------|----|--------------|
| Energysys | 12HX100FR<br>NPX100FR                      | 100         | 6.5     | 4.9     | 6.9     | 22        | 12 | 12HRL100     |
| Energysys | XE 30                                      | 127         | 6.5     | 6.9     | 4.9     | 23.3      | 12 | 12HRL100     |
| Energysys | HX135R<br>12HX135B<br>12HX150E<br>NPX135FR | 135         | 7.8     | 5.1     | 7.1     | 26        | 12 | 12HRL140     |
| Energysys | HX150<br>12HX150FR<br>NPX150FR             | 160         | 7.8     | 6.5     | 6.7     | 32        | 12 | 12HRL150     |
| Energysys | 12HX135FR                                  | 136         | 7.7     | 5.1     | 6.7     | 26        | 12 | 12HRL140     |
| Energysys | XE40                                       | 180         | 7.7     | 6.5     | 6.7     | 35.4      | 12 | 12HRL150     |
| Energysys | 12HX205FR                                  | 206         | 8.9     | 5.5     | 8.1     | 43        | 12 | 12HRL200     |
| Energysys | XE60                                       | 274         | 10.9    | 6.8     | 7.1     | 49.4      | 12 | 12HRL300     |
| Energysys | HX300-12FR<br>12HX300FR                    | 284         | 10.2    | 6.9     | 8.2     | 60        | 12 | 12HRL300     |
| Energysys | XE70                                       | 305         | 12.9    | 6.5     | 6.9     | 56.6      | 12 | 12HRL365     |
| Energysys | HX330-12FR<br>12HX330FR                    | 336         | 11.8    | 6.8     | 8.4     | 71        | 12 | 12HRL365     |
| Energysys | HX400-12FR<br>12HX400FR                    | 381         | 13.3    | 6.8     | 8.3     | 80        | 12 | 12HRL400     |
| Energysys | 12XE760-FR                                 | 390         | 13      | 6.8     | 8.6     | 77.4      | 12 | 12HRL400     |
| Energysys | XE95                                       | 414         | 13      | 6.8     | 8.6     | 77.4      | 12 | 12HRL400     |
| Energysys | HX500-12FR<br>12HX500FR                    | 506         | 13.4    | 6.8     | 10.8    | 103       | 12 | 12HRL550     |
| Energysys | 12HX505<br>12HX505FR                       | 506         | 13.3    | 6.8     | 10.7    | 103       | 12 | 12HRL550     |
| Energysys | 12HX540<br>HX540-12FR<br>12HX540FR         | 540         | 13.3    | 6.8     | 10.8    | 106       | 12 | 12HRL550     |
| Energysys | 12XE1040-FR                                | 560         | 13.3    | 6.8     | 10.7    | 97        | 12 | 12HRL550     |
| Energysys | 12XE1010F-FR                               | 566         | 22.9    | 4.9     | 11.1    | 107.4     | 12 | 12HRL600     |
| Energysys | 12XE1110F-FR                               | 649         | 22.9    | 4.9     | 11.1    | 114       | 12 | 12HRL600     |
| Energysys | 12XE1150F-FR                               | 706         | 22.9    | 4.9     | 12.4    | 129.2     | 12 | 12HRL700     |
| Energysys | HX800-6FR<br>6HX800FR                      | 780         | 13.4    | 6.8     | 8.5     | 80        | 6  | 6HRL700      |

| Company    | Model                         | WPC @15 min | L (in.) | W (in.) | H (in.) | Wt. (lbs) | L (in.) | Narada Model |
|------------|-------------------------------|-------------|---------|---------|---------|-----------|---------|--------------|
| Exide /GNB | S12V170F                      | 167         | 7.81    | 6.58    | 7.01    | 36        | 12      | 12HRL140     |
| Exide /GNB | S12V285F /S12V285             | 285         | 10.21   | 6.85    | 8.8     | 61        | 12      | 12HRL300     |
| Exide /GNB | S12V300F /S12V300             | 306         | 10.25   | 6.85    | 8.8     | 63        | 12      | 12HRL300     |
| Exide /GNB | S12V370F                      | 373         | 12      | 6.85    | 9.2     | 73        | 12      | 12HRL365     |
| Exide /GNB | S12V500F                      | 505         | 13.53   | 6.74    | 10.9    | 106       | 12      | 12HRL550     |
| Exide /GNB | S12V550NG                     | 550         | 13.27   | 6.77    | 10.91   | 99.6      | 12      | 12HRL550     |
| Exide /GNB | S6V740F<br>S6V740<br>S6V740NG | 746         | 12.14   | 6.77    | 8.78    | 68        | 6       | 6HRL700      |

| Company | Model    | WPC @15 min | L (in.) | W (in.) | H (in.) | Wt. (lbs) | V  | Narada Model        |
|---------|----------|-------------|---------|---------|---------|-----------|----|---------------------|
| FIAMM   | 12FLX150 | 152         | 7.78    | 6.48    | 6.65    | 30.6      | 12 | 12HRL140 / 12HRL150 |
| FIAMM   | 12FLX200 | 225         | 9.06    | 5.43    | 8.35    | 39.2      | 12 | 12HRL200            |
| FIAMM   | 12FLX250 | 257         | 10.69   | 6.54    | 7.68    | 51.8      | 12 | 12HRL300            |
| FIAMM   | 12FLX300 | 340         | 10.27   | 6.85    | 8.58    | 58.3      | 12 | 12HRL300            |
| FIAMM   | 12FLX350 | 390         | 11.87   | 6.85    | 8.58    | 67.5      | 12 | 12HRL365            |
| FIAMM   | 12FLX400 | 415         | 13.31   | 6.85    | 8.46    | 73.3      | 12 | 12HRL400            |
| FIAMM   | 12FLX500 | 502         | 13.31   | 6.85    | 10.87   | 98        | 12 | 12HRL550            |
| FIAMM   | 12FLX700 | 702         | 21.97   | 4.96    | 12.64   | 134       | 12 | 12HRL700            |

| Company    | Model    | WPC @15 min | L (in.) | W (in.) | H (in.) | Wt. (lbs) | V  | Narada Model |
|------------|----------|-------------|---------|---------|---------|-----------|----|--------------|
| Interstate | 12MQ800  | 135         | 7.8     | 5.1     | 6.7     | 26        | 12 | 12HRL140     |
| Interstate | 12MQ1200 | 204         | 8.9     | 5.5     | 8.1     | 43        | 12 | 12HRL200     |
| Interstate | 12MQ1800 | 284         | 10.2    | 6.8     | 8.24    | 60        | 12 | 12HRL300     |
| Interstate | 12MQ2100 | 336         | 11.8    | 6.8     | 8.4     | 71        | 12 | 12HRL365     |
| Interstate | 12MQ2400 | 381         | 13.3    | 6.8     | 8.3     | 80        | 12 | 12HRL400     |
| Interstate | 12MQ3000 | 506         | 13.3    | 6.8     | 10.7    | 103       | 12 | 12HRL550     |
| Interstate | 12MQ3300 | 540         | 13.3    | 6.8     | 10.7    | 106       | 12 | 12HRL550     |

| Company   | Model        | WPC @15 min | L (in.) | W (in.) | H (in.) | Wt. (lbs) | V  | Narada Model |
|-----------|--------------|-------------|---------|---------|---------|-----------|----|--------------|
| Northstar | NSB 12-310   | 310         | 10.3    | 6.8     | 7.9     | 57        | 12 | 12HRL300     |
| Northstar | NSB 12-365RT | 365         | 15.6    | 4.2     | 10.4    | 73        | 12 | 12HRL365     |
| Northstar | NSB 12-425   | 425         | 13.4    | 6.8     | 8.4     | 75        | 12 | 12HRL400     |
| Northstar | NSB 12-450FT | 477         | 22      | 4.9     | 8.9     | 88        | 12 | 12HRL390     |
| Northstar | NSB 12-450RT | 484         | 22      | 4.9     | 8.9     | 88        | 12 | 12HRL550     |
| Northstar | NSB 12-540   | 540         | 13.6    | 6.8     | 10.8    | 99        | 12 | 12HRL550     |
| Northstar | NSB 12-590FT | 605         | 33      | 4.9     | 11      | 119       | 12 | 12HRL600     |
| Northstar | NSB 12-650RT | 649         | 22      | 4.9     | 11      | 119       | 12 | 12HRL600     |
| Northstar | NSB 12-730RT | 728         | 22      | 4.9     | 12.6    | 137       | 12 | 12HRL700     |

| Company | Model            | WPC @15 min | L (in.) | W (in.) | H (in.) | Wt. (lbs) | V  | Narada Model |
|---------|------------------|-------------|---------|---------|---------|-----------|----|--------------|
| Power   | PRC or TC 1235L  | 119         | 7.71    | 5.18    | 7.19    | 26.7      | 12 | 12HRL140     |
| Power   | PRC or TC 1255S  | 196         | 9       | 5.45    | 9       | 37        | 12 | 12HRL200     |
| Power   | PRC or TC 1290S  | 283         | 10.2    | 6.76    | 9.4     | 60.6      | 12 | 12HRL300     |
| Power   | PRC or TC 12100S | 318         | 12      | 6.68    | 9.58    | 71.9      | 12 | 12HRL365     |
| Power   | PRC or TC 12120S | 400         | 13.5    | 6.76    | 9.25    | 81.8      | 12 | 12HRL400     |
| Power   | PRC or TC 12150C | 505         | 13.5    | 6.81    | 10.8    | 100.1     | 12 | 12HRL550     |

| Company   | Model         | WPC @15 min | L (in.) | W (in.) | H (in.) | Wt. (lbs) | V  | Narada Model |
|-----------|---------------|-------------|---------|---------|---------|-----------|----|--------------|
| POWERWARE | PWHR12120W3FR | 123         | 6.53    | 4.92    | 6.89    | 23.6      | 12 | 12HRL100     |
| POWERWARE | PWHR122004FR  | 206         | 8.97    | 5.45    | 8.16    | 38.8      | 12 | 12HRL200     |
| POWERWARE | PWHR122804FR  | 283         | 10.28   | 6.63    | 8.43    | 56.88     | 12 | 12HRL300     |
| POWERWARE | PWHR123304FR  | 340         | 12.15   | 6.65    | 8.44    | 65.26     | 12 | 12HRL365     |
| POWERWARE | PWHR122390WFR | 398         | 13.46   | 6.69    | 8.57    | 72.75     | 12 | 12HRL400     |
| POWERWARE | PWHR125004FR  | 503         | 13.5    | 6.69    | 10.93   | 110.75    | 12 | 12HRL550     |

Check Narada Datasheet Drawing for Fitment - Referenced battery base dimension smaller than total length

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