Manufacturer: PV Powered

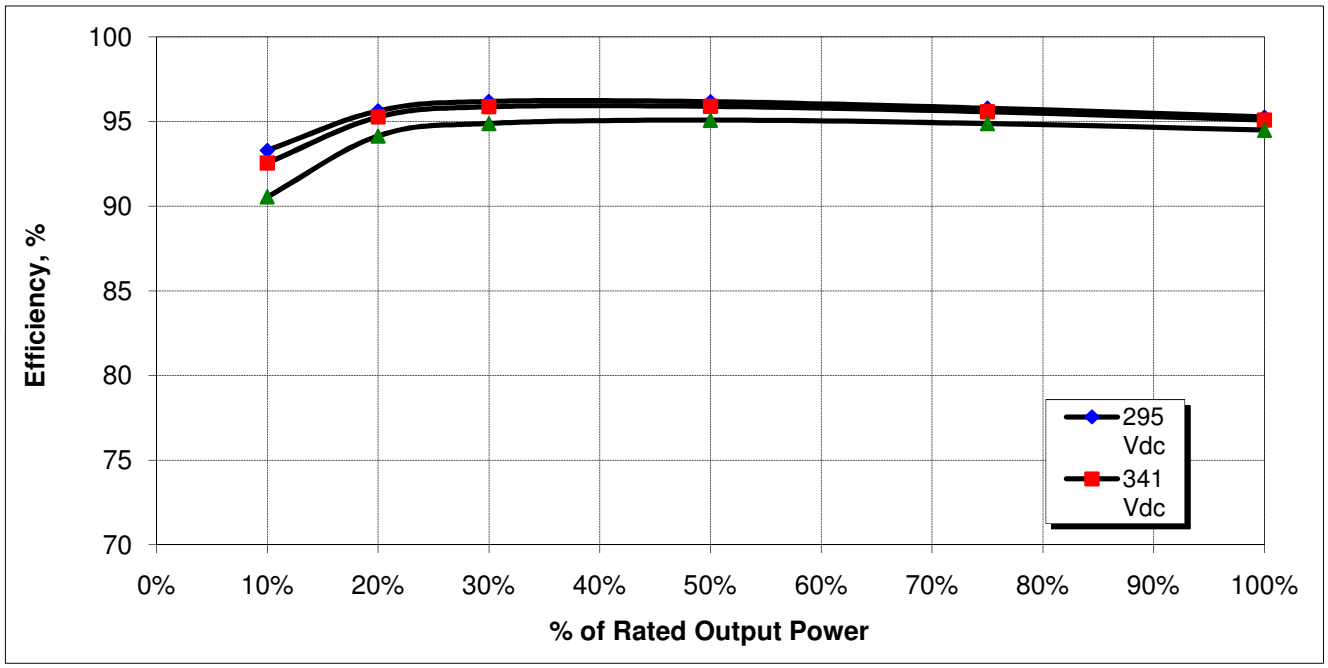
Model #: PVP35kW-208

Rated Maximum Continuous Output Power: 35.00 kW  Night Tare Loss: 38.63 W

Vmin: 295 Vdc  Vnom: 341 Vdc  Vmax: 480 Vdc

| | | Power Level (%; kW) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 3.50 | 7.00 | 10.50 | 17.50 | 26.25 | 35.00 | Wtd |
| Vmin | 295 | 93.3 | 95.6 | 96.2 | 96.2 | 95.8 | 95.3 | 95.8 |
| Vnom | 341 | 92.6 | 95.3 | 95.9 | 95.9 | 95.6 | 95.1 | 95.5 |
| Vmax | 480 | 90.5 | 94.1 | 94.9 | 95.1 | 94.9 | 94.5 | 94.7 |

**CEC Efficiency = 95.5%**



Inverter Efficiency Data

Minimum of 5 samples required

| Specified | | Sample #1 | | | Sample #2 | | | Sample #3 | | | Sample #4 | | | Sample #5 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Output Power | Input Voltage | Output Power | Input Voltage | Efficiency | Output Power | Input Voltage | Efficiency | Output Power | Input Voltage | Efficiency | Output Power | Input Voltage | Efficiency | Output Power | Input Voltage | Efficiency |
| (% of rated) | (Vdc) | (kW) | (Vdc) | (%) | (kW) | (Vdc) | (%) | (kW) | (Vdc) | (%) | (kW) | (Vdc) | (%) | (W) | (Vdc) | (%) |
| 10% | Vmin | 3473.5 | 295.9 | 93.29 | 3472.9 | 295.8 | 93.31 | 3474.0 | 295.8 | 93.30 | 3473.2 | 295.9 | 93.29 | 3473.1 | 295.9 | 93.29 |
| 20% | Vmin | 7665.7 | 295.8 | 95.62 | 7666.2 | 295.8 | 95.63 | 7665.8 | 295.8 | 95.63 | 7663.2 | 295.8 | 95.63 | 7663.3 | 295.8 | 95.63 |
| 30% | Vmin | 11348.0 | 295.8 | 96.19 | 11348.0 | 295.8 | 96.18 | 11356.0 | 295.8 | 96.18 | 11355.0 | 295.7 | 96.17 | 11355.0 | 295.8 | 96.17 |
| 50% | Vmin | 15784.0 | 295.7 | 96.17 | 15784.0 | 295.7 | 96.16 | 15787.0 | 295.7 | 96.16 | 15780.0 | 295.8 | 96.16 | 15782.0 | 295.8 | 96.15 |
| 75% | Vmin | 24533.0 | 295.6 | 95.79 | 24531.0 | 295.6 | 95.78 | 24528.0 | 295.6 | 95.78 | 24528.0 | 295.6 | 95.78 | 24534.0 | 295.5 | 95.79 |
| 100% | Vmin | 33292.0 | 295.4 | 95.25 | 33291.0 | 295.4 | 95.26 | 33299.0 | 295.4 | 95.27 | 33295.0 | 295.4 | 95.26 | 33292.0 | 295.4 | 95.26 |
| 10% | Vnom | 3457.0 | 341.9 | 92.55 | 3453.3 | 341.9 | 92.54 | 3453.6 | 342.0 | 92.53 | 3453.3 | 341.9 | 92.55 | 3452.1 | 342.0 | 92.55 |
| 20% | Vnom | 7663.8 | 341.9 | 95.28 | 7664.0 | 341.9 | 95.28 | 7665.4 | 341.9 | 95.28 | 7663.3 | 341.9 | 95.28 | 7665.2 | 341.9 | 95.28 |
| 30% | Vnom | 11356.0 | 341.9 | 95.88 | 11355.0 | 341.9 | 95.88 | 11355.0 | 341.9 | 95.88 | 11357.0 | 341.9 | 95.87 | 11358.0 | 341.9 | 95.87 |
| 50% | Vnom | 15799.0 | 341.8 | 95.88 | 15793.0 | 341.8 | 95.88 | 15794.0 | 341.8 | 95.88 | 15793.0 | 341.8 | 95.90 | 15795.0 | 341.8 | 95.90 |
| 75% | Vnom | 24531.0 | 341.6 | 95.58 | 24535.0 | 341.7 | 95.58 | 24535.0 | 341.7 | 95.59 | 24535.0 | 341.7 | 95.58 | 24535.0 | 341.7 | 95.57 |
| 100% | Vnom | 33286.0 | 341.5 | 95.09 | 33281.0 | 341.6 | 95.09 | 33286.0 | 341.5 | 95.09 | 33284.0 | 341.5 | 95.08 | 33283.0 | 341.5 | 95.09 |
| 10% | Vmax | 3472.4 | 481.3 | 90.58 | 3471.1 | 481.3 | 90.58 | 3473.2 | 481.2 | 90.62 | 3473.7 | 481.2 | 90.62 | 3457.0 | 481.2 | 90.50 |
| 20% | Vmax | 7666.6 | 481.2 | 94.16 | 7665.9 | 481.2 | 94.15 | 7667.8 | 481.2 | 94.16 | 7666.0 | 481.2 | 94.15 | 7665.7 | 481.1 | 94.14 |
| 30% | Vmax | 11338.0 | 481.2 | 94.89 | 11341.0 | 481.2 | 94.89 | 11341.0 | 481.2 | 94.87 | 11341.0 | 481.2 | 94.88 | 11339.0 | 481.2 | 94.88 |
| 50% | Vmax | 15788.0 | 481.1 | 95.05 | 15783.0 | 481.1 | 95.06 | 15785.0 | 481.1 | 95.06 | 15786.0 | 481.0 | 95.07 | 15787.0 | 481.1 | 95.08 |
| 75% | Vmax | 24526.0 | 480.9 | 94.88 | 24524.0 | 480.9 | 94.88 | 24523.0 | 480.8 | 94.88 | 24527.0 | 480.8 | 94.88 | 24521.0 | 480.9 | 94.89 |
| 100% | Vmax | 33277.0 | 480.8 | 94.46 | 33286.0 | 480.8 | 94.48 | 33282.0 | 480.8 | 94.51 | 33279.0 | 480.8 | 94.50 | 33286.0 | 480.8 | 94.49 |

| Specified | | Sample #6 | | | Sample #7 | | | Sample #8 | | | Sample #9 | | | Sample #10 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Output Power | Input Voltage | Output Power | Input Voltage | Efficiency | Output Power | Input Voltage | Efficiency | Output Power | Input Voltage | Efficiency | Output Power | Input Voltage | Efficiency | Output Power | Input Voltage | Efficiency |
| (% of rated) | (Vdc) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) |
| 10% | Vmin | 3462.9 | 295.9 | 93.25 | 3464.1 | 295.8 | 93.26 | 3463.8 | 295.9 | 93.25 | 3466.0 | 295.8 | 93.27 | 3479.1 | 295.9 | 93.31 |
| 20% | Vmin | 7663.7 | 295.8 | 95.623 | 7662.8 | 295.8 | 95.622 | 7665.2 | 295.8 | 95.623 | 7664.4 | 295.8 | 95.624 | 7664.8 | 295.8 | 95.619 |
| 30% | Vmin | 11356.0 | 295.7 | 96.169 | 11354.0 | 295.8 | 96.170 | 11354.0 | 295.8 | 96.174 | 11360.0 | 295.7 | 96.214 | 11360.0 | 295.7 | 96.212 |
| 50% | Vmin | 15784.0 | 295.8 | 96.156 | 15787.0 | 295.8 | 96.162 | 15788.0 | 295.7 | 96.176 | 15786.0 | 295.7 | 96.176 | 15785.0 | 295.8 | 96.177 |
| 75% | Vmin | 24542.0 | 295.5 | 95.776 | 24531.0 | 295.6 | 95.780 | 24531.0 | 295.6 | 95.783 | 24532.0 | 295.6 | 95.780 | 24530.0 | 295.6 | 95.775 |
| 100% | Vmin | 33285.0 | 295.4 | 95.252 | 33292.0 | 295.4 | 95.253 | 33292.0 | 295.4 | 95.273 | 33287.0 | 295.4 | 95.261 | 33294.0 | 295.4 | 95.270 |
| 10% | Vnom | 3465.7 | 342.0 | 92.572 | 3468.2 | 342.0 | 92.569 | 3463.2 | 341.9 | 92.574 | 3463.4 | 341.9 | 92.574 | 3461.4 | 341.9 | 92.561 |
| 20% | Vnom | 7662.5 | 341.9 | 95.273 | 7664.6 | 341.9 | 95.257 | 7664.0 | 341.9 | 95.258 | 7661.6 | 341.9 | 95.255 | 7657.4 | 341.9 | 95.226 |
| 30% | Vnom | 11359.0 | 341.9 | 95.875 | 11355.0 | 341.9 | 95.870 | 11361.0 | 341.9 | 95.873 | 11352.0 | 341.9 | 95.877 | 11356.0 | 341.9 | 95.870 |
| 50% | Vnom | 15790.0 | 341.8 | 95.911 | 15789.0 | 341.8 | 95.902 | 15792.0 | 341.8 | 95.907 | 15792.0 | 341.8 | 95.905 | 15794.0 | 341.8 | 95.908 |
| 75% | Vnom | 24538.0 | 341.7 | 95.572 | 24532.0 | 341.7 | 95.601 | 24536.0 | 341.6 | 95.591 | 24537.0 | 341.7 | 95.584 | 24537.0 | 341.7 | 95.570 |
| 100% | Vnom | 33289.0 | 341.5 | 95.083 | 33289.0 | 341.5 | 95.091 | 33285.0 | 341.5 | 95.084 | 33284.0 | 341.5 | 95.095 | 33288.0 | 341.5 | 95.088 |
| 10% | Vmax | 3458.2 | 481.2 | 90.523 | 3457.9 | 481.2 | 90.518 | 3456.4 | 481.2 | 90.502 | 3456.4 | 481.3 | 90.520 | 3456.0 | 481.3 | 90.523 |
| 20% | Vmax | 7668.0 | 481.2 | 94.131 | 7666.3 | 481.2 | 94.128 | 7665.5 | 481.1 | 94.140 | 7665.0 | 481.2 | 94.140 | 7665.3 | 481.2 | 94.136 |
| 30% | Vmax | 11342.0 | 481.2 | 94.881 | 11345.0 | 481.2 | 94.881 | 11342.0 | 481.2 | 94.887 | 11341.0 | 481.2 | 94.894 | 11340.0 | 481.2 | 94.889 |
| 50% | Vmax | 15785.0 | 481.0 | 95.080 | 15782.0 | 481.1 | 95.087 | 15785.0 | 481.1 | 95.081 | 15786.0 | 481.1 | 95.090 | 15783.0 | 481.1 | 95.110 |
| 75% | Vmax | 24526.0 | 480.9 | 94.856 | 24524.0 | 480.9 | 94.852 | 24532.0 | 480.9 | 94.881 | 24526.0 | 480.9 | 94.886 | 24531.0 | 480.9 | 94.892 |
| 100% | Vmax | 33286.0 | 480.8 | 94.487 | 33289.0 | 480.8 | 94.479 | 33288.0 | 480.8 | 94.484 | 33285.0 | 480.8 | 94.481 | 33287.0 | 480.8 | 94.486 |