Manufacturer: Dow Chemical

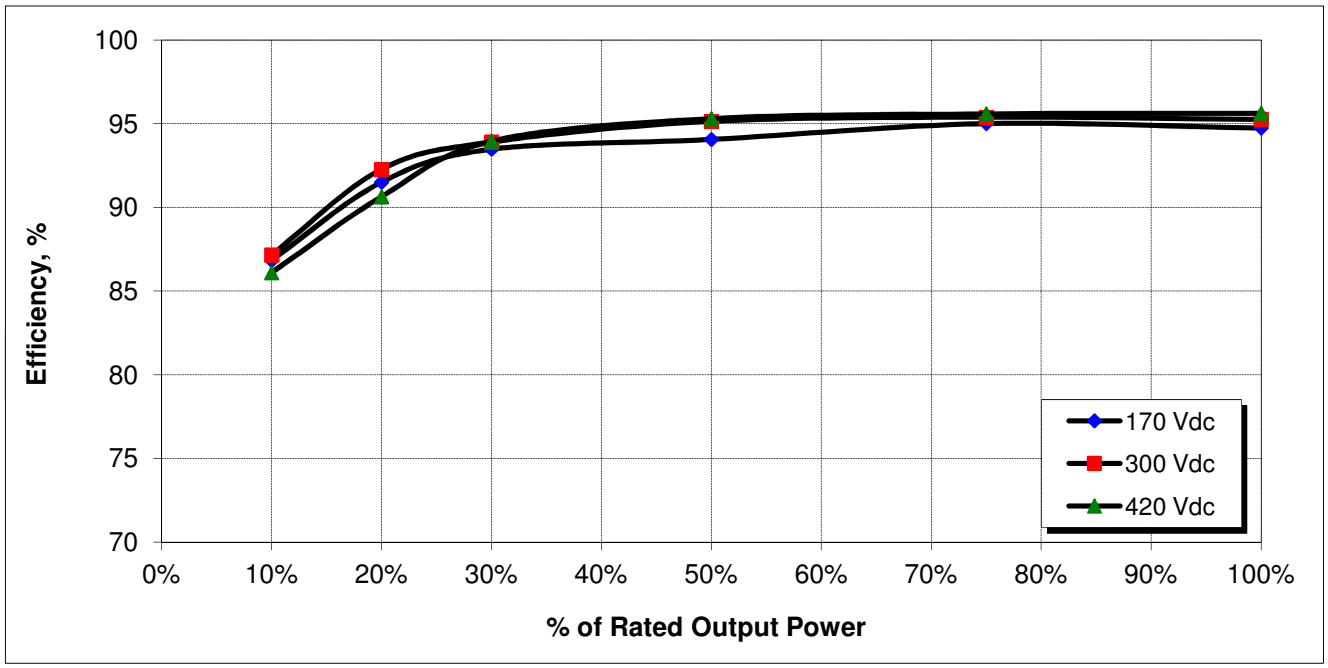
Model #: 362589

Rated Maximum Continuous Output Power: 3.504 kW  Night Tare Loss: -1.39 W

Vmin: 170 Vdc  Vnom: 300 Vdc  Vmax: 420 Vdc

| | | Power Level (%; kW) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 0.35 | 0.70 | 1.05 | 1.75 | 2.63 | 3.50 | Wtd |
| Vmin | 170 | 86.8 | 91.5 | 93.5 | 94.1 | 95.0 | 94.7 | 94.1 |
| Vnom | 300 | 87.2 | 92.3 | 93.9 | 95.1 | 95.4 | 95.3 | 94.7 |
| Vmax | 420 | 86.1 | 90.6 | 94.0 | 95.3 | 95.6 | 95.6 | 94.7 |

**CEC Efficiency = 94.5%**



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) | (%) | (kW) | (Vdc) | (%) |
| 10% | Vmin | 0.3132 | 170.19 | 87.398 | 0.311 | 170.18 | 86.899 | 0.31 | 170.19 | 86.253 | 0.312 | 170.19 | 86.919 | 0.311 | 170.18 | 86.725 |
| 20% | Vmin | 0.6818 | 170.4 | 91.471 | 0.68 | 170.4 | 91.456 | 0.683 | 170.39 | 91.806 | 0.68 | 170.4 | 91.327 | 0.681 | 170.39 | 91.479 |
| 30% | Vmin | 1.0405 | 170.32 | 93.458 | 1.041 | 170.32 | 93.525 | 1.038 | 170.32 | 93.177 | 1.045 | 170.32 | 93.916 | 1.039 | 170.32 | 93.312 |
| 50% | Vmin | 1.7717 | 170.15 | 93.871 | 1.762 | 170.15 | 94.316 | 1.752 | 170.16 | 93.843 | 1.761 | 170.15 | 94.288 | 1.757 | 170.16 | 94.004 |
| 75% | Vmin | 2.6063 | 170 | 94.514 | 2.601 | 170 | 94.344 | 2.621 | 169.99 | 94.592 | 2.703 | 169.99 | 97.574 | 2.606 | 169.99 | 94.044 |
| 100% | Vmin | 3.5062 | 169.03 | 94.182 | 3.497 | 168.8 | 94.034 | 3.482 | 168.55 | 93.734 | 3.494 | 168.52 | 94.123 | 3.637 | 169.36 | 97.643 |
| 10% | Vnom | 0.3071 | 300.89 | 87.211 | 0.314 | 300.89 | 87.458 | 0.297 | 300.89 | 86.978 | 0.294 | 300.89 | 86.725 | 0.307 | 300.89 | 87.426 |
| 20% | Vnom | 0.685 | 300.82 | 92.319 | 0.686 | 300.82 | 92.253 | 0.685 | 300.82 | 92.275 | 0.685 | 300.82 | 92.28 | 0.685 | 300.82 | 92.215 |
| 30% | Vnom | 1.0384 | 300.77 | 93.964 | 1.038 | 300.77 | 93.861 | 1.037 | 300.77 | 93.874 | 1.039 | 300.77 | 93.909 | 1.037 | 300.77 | 93.872 |
| 50% | Vnom | 1.7957 | 300.82 | 95.076 | 1.798 | 300.81 | 95.141 | 1.799 | 300.81 | 95.201 | 1.798 | 300.81 | 95.133 | 1.798 | 300.81 | 95.135 |
| 75% | Vnom | 2.6314 | 300.7 | 95.355 | 2.631 | 300.7 | 95.371 | 2.632 | 300.7 | 95.403 | 2.632 | 300.7 | 95.401 | 2.632 | 300.7 | 95.383 |
| 100% | Vnom | 3.5052 | 300.58 | 95.235 | 3.506 | 300.58 | 95.253 | 3.506 | 300.58 | 95.24 | 3.504 | 300.58 | 95.2 | 3.509 | 300.58 | 95.341 |
| 10% | Vmax | 0.3023 | 420.9 | 85.796 | 0.31 | 420.89 | 86.214 | 0.31 | 420.89 | 86.065 | 0.311 | 420.89 | 86.201 | 0.311 | 420.89 | 86.229 |
| 20% | Vmax | 0.7153 | 420.84 | 90.638 | 0.666 | 420.84 | 90.641 | 0.671 | 420.84 | 90.621 | 0.671 | 420.84 | 90.664 | 0.673 | 420.84 | 90.651 |
| 30% | Vmax | 1.043 | 420.8 | 93.986 | 1.036 | 420.8 | 93.941 | 1.04 | 420.8 | 93.965 | 1.039 | 420.8 | 93.965 | 1.039 | 420.8 | 93.929 |
| 50% | Vmax | 1.8001 | 420.72 | 95.274 | 1.802 | 420.72 | 95.375 | 1.8 | 420.72 | 95.282 | 1.8 | 420.71 | 95.277 | 1.8 | 420.72 | 95.305 |
| 75% | Vmax | 2.6331 | 420.63 | 95.621 | 2.631 | 420.63 | 95.558 | 2.633 | 420.63 | 95.611 | 2.63 | 420.63 | 95.577 | 2.631 | 420.63 | 95.555 |
| 100% | Vmax | 3.5091 | 420.54 | 95.712 | 3.51 | 420.54 | 95.655 | 3.504 | 420.54 | 95.564 | 3.508 | 420.54 | 95.64 | 3.503 | 420.54 | 95.557 |

| 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) | (kW) | (Vdc) | (%) | (kW) | (Vdc) | (%) | (kW) | (Vdc) | (%) | (kW) | (Vdc) | (%) | (kW) | (Vdc) | (%) |
| 10% | Vmin | | | | | | | | | | | | | | | |
| 20% | Vmin | | | | | | | | | | | | | | | |
| 30% | Vmin | | | | | | | | | | | | | | | |
| 50% | Vmin | | | | | | | | | | | | | | | |
| 75% | Vmin | | | | | | | | | | | | | | | |
| 100% | Vmin | | | | | | | | | | | | | | | |
| 10% | Vnom | | | | | | | | | | | | | | | |
| 20% | Vnom | | | | | | | | | | | | | | | |
| 30% | Vnom | | | | | | | | | | | | | | | |
| 50% | Vnom | | | | | | | | | | | | | | | |
| 75% | Vnom | | | | | | | | | | | | | | | |
| 100% | Vnom | | | | | | | | | | | | | | | |
| 10% | Vmax | | | | | | | | | | | | | | | |
| 20% | Vmax | | | | | | | | | | | | | | | |
| 30% | Vmax | | | | | | | | | | | | | | | |
| 50% | Vmax | | | | | | | | | | | | | | | |
| 75% | Vmax | | | | | | | | | | | | | | | |
| 100% | Vmax | | | | | | | | | | | | | | | |