Manufacturer: Agepower Limited

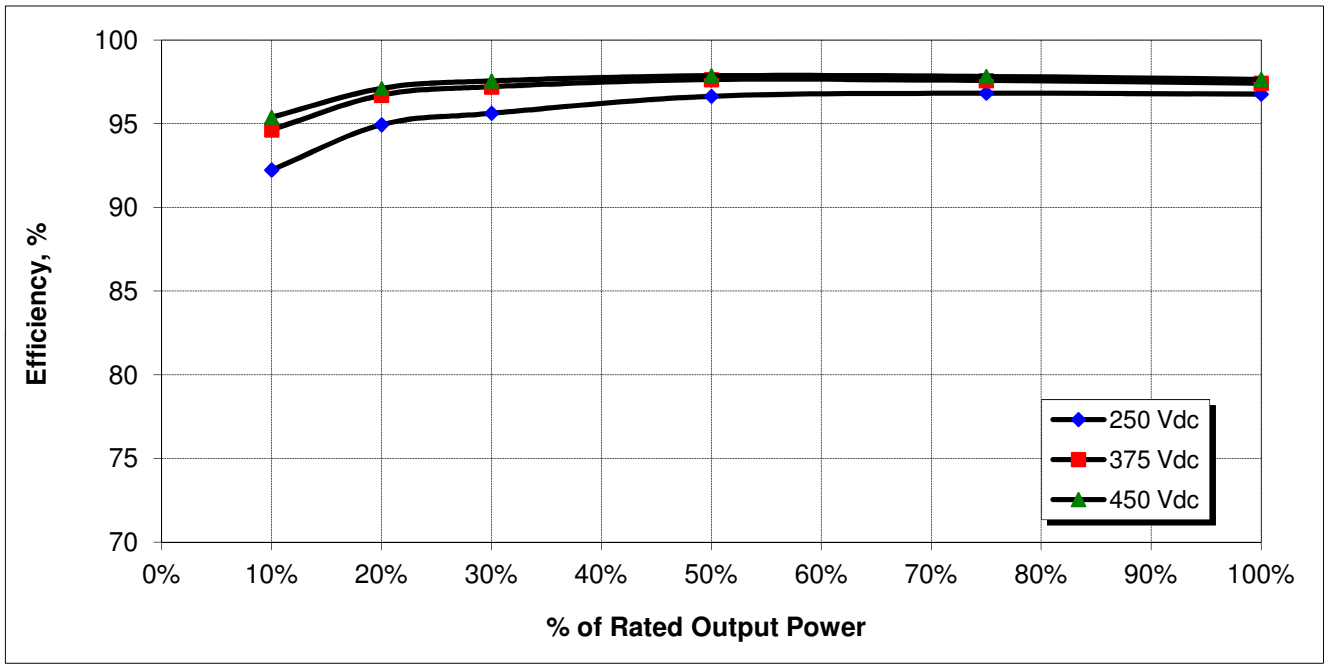
Model #: AP 5000 MTL-US (277 Vac)

Rated Maximum Continuous Output Power: 4.60 kW  Night Tare Loss: 0.43 W

Vmin: 250 Vdc  Vnom: 375 Vdc  Vmax: 450 Vdc

| | | Power Level (%; kW) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 0.46 | 0.92 | 1.38 | 2.30 | 3.45 | 4.60 | Wtd |
| Vmin | 250 | 92.2 | 94.9 | 95.6 | 96.6 | 96.8 | 96.8 | 96.4 |
| Vnom | 375 | 94.6 | 96.7 | 97.2 | 97.6 | 97.6 | 97.4 | 97.4 |
| Vmax | 450 | 95.4 | 97.1 | 97.6 | 97.9 | 97.8 | 97.7 | 97.7 |

**CEC Efficiency = 97.0%**



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 | 0.4431 | 250.46 | 92.288 | 0.443 | 250.27 | 92.449 | 0.442 | 250.59 | 91.889 | 0.442 | 250.61 | 92.048 | 0.443 | 250.44 | 92.501 |
| 20% | Vmin | 0.9542 | 250.51 | 95.791 | 0.953 | 250.55 | 95.542 | 0.957 | 250.45 | 94.804 | 0.957 | 250.49 | 93.818 | 0.955 | 250.33 | 94.712 |
| 30% | Vmin | 1.3552 | 250.42 | 95.608 | 1.356 | 250.48 | 95.617 | 1.357 | 250.48 | 95.624 | 1.357 | 250.48 | 95.620 | 1.355 | 250.6 | 95.628 |
| 50% | Vmin | 2.4097 | 250.44 | 96.636 | 2.41 | 250.58 | 96.638 | 2.41 | 250.31 | 96.638 | 2.41 | 250.62 | 96.638 | 2.409 | 250.61 | 96.639 |
| 75% | Vmin | 3.5169 | 250.27 | 96.820 | 3.515 | 250.42 | 96.821 | 3.515 | 250.54 | 96.819 | 3.515 | 250.83 | 96.820 | 3.515 | 250.63 | 96.820 |
| 100% | Vmin | 4.618 | 250.36 | 96.772 | 4.618 | 250.66 | 96.772 | 4.617 | 250.4 | 96.760 | 4.617 | 250.45 | 96.760 | 4.616 | 250.5 | 96.758 |
| 10% | Vnom | 0.442 | 375.51 | 94.529 | 0.443 | 375.46 | 94.683 | 0.443 | 375.44 | 94.546 | 0.443 | 375.77 | 94.653 | 0.443 | 375.61 | 94.758 |
| 20% | Vnom | 0.9554 | 375.3 | 96.696 | 0.957 | 375.43 | 96.673 | 0.955 | 375.55 | 96.691 | 0.955 | 375.58 | 96.696 | 0.953 | 375.73 | 96.690 |
| 30% | Vnom | 1.3559 | 375.31 | 97.192 | 1.357 | 375.45 | 97.199 | 1.355 | 375.54 | 97.195 | 1.355 | 375.34 | 97.198 | 1.356 | 375.54 | 97.211 |
| 50% | Vnom | 2.409 | 375.42 | 97.628 | 2.407 | 375.47 | 97.627 | 2.406 | 375.57 | 97.630 | 2.406 | 375.67 | 97.630 | 2.409 | 375.37 | 97.635 |
| 75% | Vnom | 3.5113 | 375.56 | 97.572 | 3.514 | 375.68 | 97.572 | 3.514 | 375.57 | 97.575 | 3.514 | 375.48 | 97.574 | 3.513 | 375.47 | 97.574 |
| 100% | Vnom | 4.6146 | 375.67 | 97.419 | 4.616 | 375.36 | 97.415 | 4.617 | 375.51 | 97.412 | 4.617 | 375.36 | 97.412 | 4.617 | 375.34 | 97.407 |
| 10% | Vmax | 0.4413 | 450.42 | 95.383 | 0.441 | 450.46 | 95.411 | 0.442 | 450.47 | 95.383 | 0.442 | 450.42 | 95.398 | 0.44 | 450.52 | 95.387 |
| 20% | Vmax | 0.9527 | 450.53 | 97.108 | 0.953 | 450.59 | 97.107 | 0.953 | 450.56 | 97.111 | 0.953 | 450.52 | 97.109 | 0.953 | 450.54 | 97.107 |
| 30% | Vmax | 1.3543 | 450.43 | 97.552 | 1.356 | 450.34 | 97.552 | 1.354 | 450.62 | 97.560 | 1.354 | 450.52 | 97.551 | 1.354 | 450.6 | 97.551 |
| 50% | Vmax | 2.4049 | 450.23 | 97.874 | 2.405 | 450.53 | 97.860 | 2.405 | 450.57 | 97.863 | 2.405 | 450.52 | 97.862 | 2.404 | 450.42 | 97.865 |
| 75% | Vmax | 3.514 | 450.42 | 97.824 | 3.509 | 450.56 | 97.824 | 3.513 | 450.44 | 97.822 | 3.513 | 450.36 | 97.822 | 3.51 | 450.53 | 97.822 |
| 100% | Vmax | 4.6161 | 450.4 | 97.657 | 4.616 | 450.48 | 97.657 | 4.617 | 450.5 | 97.648 | 4.617 | 450.59 | 97.649 | 4.609 | 450.35 | 97.641 |

| 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 | | | | | | | | | | | | | | | |