Manufacturer: Xantrex Technology Inc.

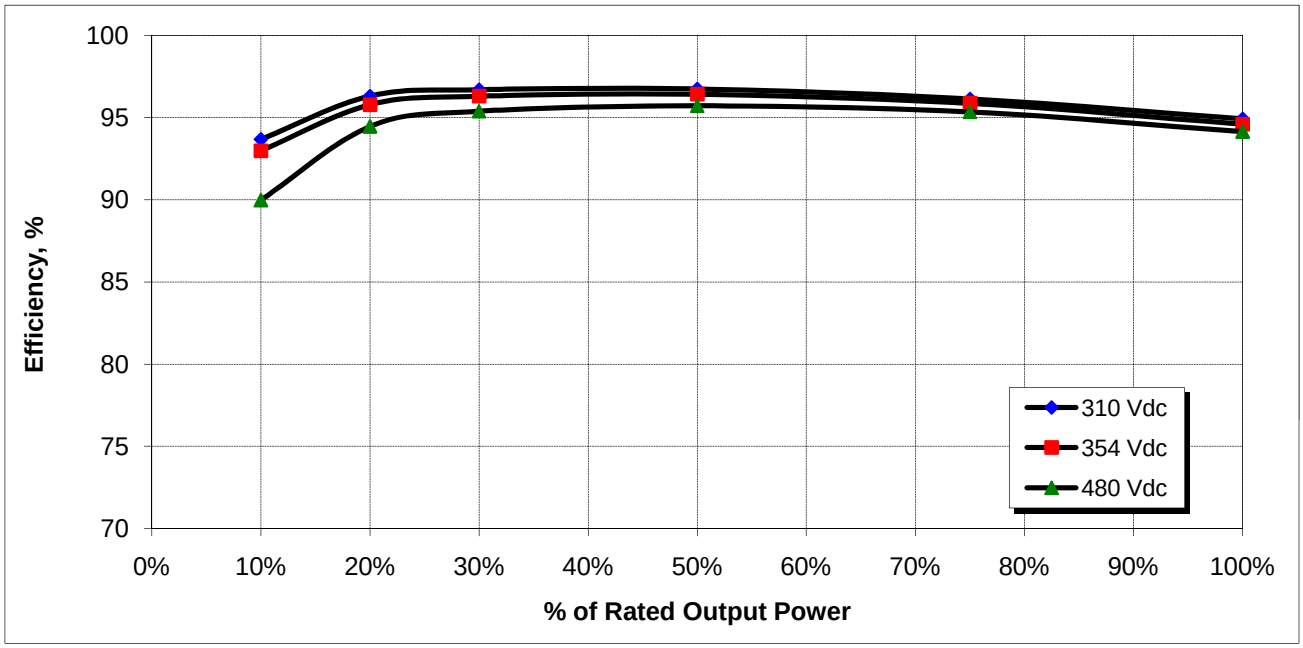
Model #: GT500-MVX

Rated Maximum Continuous Output Power: 500 kW  Night Tare Loss: 161 W

Vmin: 310 Vdc  Vnom: 354 Vdc  Vmax: 480 Vdc

| | | Power Level (%; kW) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 50.00 | 100.00 | 150.00 | 250.00 | 375.00 | 500.00 | Wtd |
| Vmin | 310 | 93.7 | 96.3 | 96.7 | 96.7 | 96.1 | 94.9 | 96.2 |
| Vnom | 354 | 93.0 | 95.8 | 96.3 | 96.4 | 95.9 | 94.6 | 95.8 |
| Vmax | 480 | 90.0 | 94.5 | 95.4 | 95.7 | 95.3 | 94.1 | 95.1 |

**CEC Efficiency = 95.5%**



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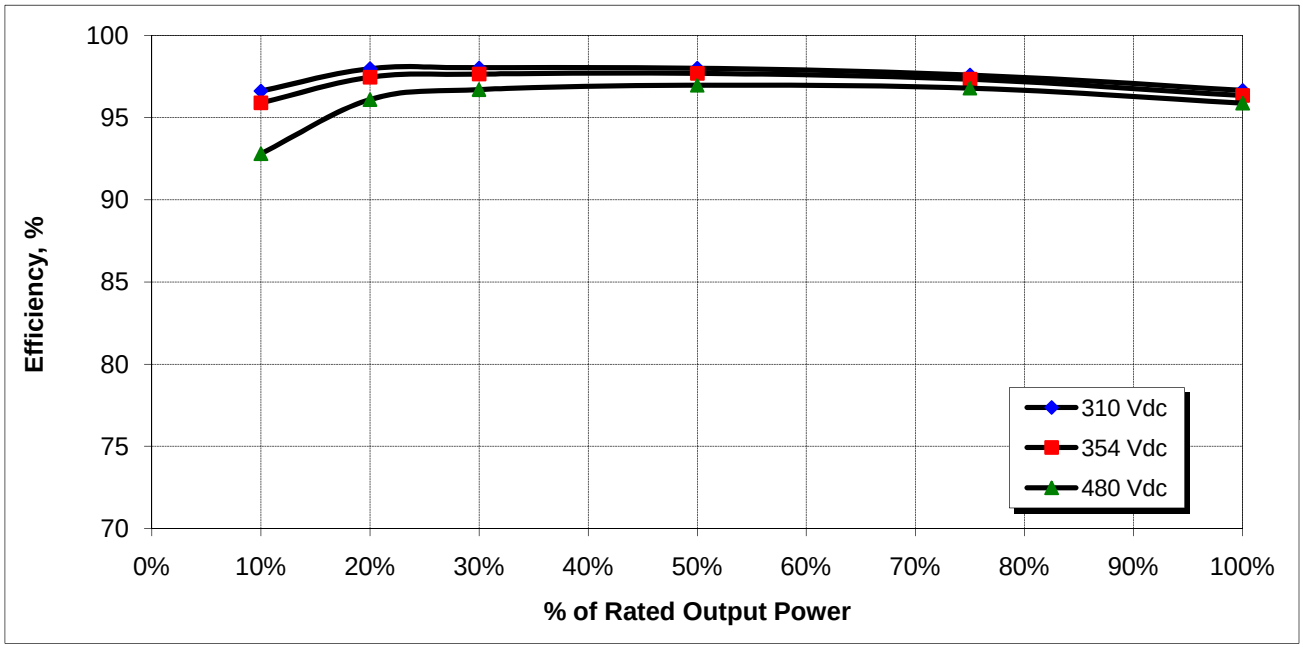
| | | Power Level (%; kW) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 50.00 | 100.00 | 150.00 | 250.00 | 375.00 | 500.00 | Wtd |
| Vmin | 310 | 96.6 | 98.0 | 98.0 | 98.0 | 97.6 | 96.7 | 97.7 |
| Vnom | 354 | 95.9 | 97.5 | 97.6 | 97.7 | 97.3 | 96.3 | 97.3 |
| Vmax | 480 | 92.8 | 96.1 | 96.7 | 97.0 | 96.8 | 95.9 | 96.6 |

**Inverter Efficiency w/o Transformer = 97.0%**




**MIN. TRANSOFRMER EFFICIENCY PER NEMA TP1**

| | | Power Level (%; kW) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 50.00 | 100.00 | 150.00 | 250.00 | 375.00 | 500.00 | Wtd |
| Vmin | 420 | 96.95 | 98.29 | 98.63 | 98.70 | 98.50 | 98.19 | 98.5 |
| Vnom | 486 | 96.95 | 98.29 | 98.63 | 98.70 | 98.50 | 98.19 | 98.5 |
| Vmax | 670 | 96.95 | 98.29 | 98.63 | 98.70 | 98.50 | 98.19 | 98.5 |

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) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) |
| 10% | Vmin | 44305.7 | 314.5 | 96.62 | 44299.3 | 314.5 | 96.62 | 44287.7 | 314.5 | 96.62 | 44277.3 | 314.5 | 96.62 | 44271.7 | 314.5 | 96.62 |
| 20% | Vmin | 105250.0 | 311.3 | 97.97 | 105250.0 | 311.4 | 97.98 | 105246.7 | 311.4 | 97.98 | 105246.7 | 311.4 | 97.98 | 105250.0 | 311.4 | 97.98 |
| 30% | Vmin | 162020.0 | 311.1 | 98.03 | 162013.3 | 311.1 | 98.03 | 162006.7 | 311.1 | 98.03 | 162003.3 | 311.1 | 98.03 | 162000.0 | 311.1 | 98.02 |
| 50% | Vmin | 229756.7 | 310.8 | 98.00 | 229743.3 | 310.8 | 98.00 | 229750.0 | 310.8 | 98.00 | 229766.7 | 310.8 | 98.00 | 229773.3 | 310.8 | 98.00 |
| 75% | Vmin | 354956.7 | 312.4 | 97.58 | 355253.3 | 312.5 | 97.58 | 355656.7 | 312.5 | 97.59 | 355950.0 | 312.5 | 97.59 | 356150.0 | 312.5 | 97.59 |
| 100% | Vmin | 478013.3 | 309.7 | 96.67 | 477983.3 | 309.7 | 96.67 | 477923.3 | 309.8 | 96.66 | 477866.7 | 309.8 | 96.66 | 477846.7 | 309.8 | 96.66 |
| 10% | Vnom | 45882.0 | 355.4 | 95.89 | 45873.7 | 355.4 | 95.89 | 45871.7 | 355.4 | 95.89 | 45870.0 | 355.4 | 95.89 | 45869.3 | 355.4 | 95.89 |
| 20% | Vnom | 106410.0 | 355.1 | 97.46 | 106403.3 | 355.1 | 97.46 | 106403.3 | 355.1 | 97.45 | 106400.0 | 355.1 | 97.45 | 106400.0 | 355.1 | 97.44 |
| 30% | Vnom | 157746.7 | 354.8 | 97.64 | 157736.7 | 354.8 | 97.64 | 157713.3 | 354.8 | 97.64 | 157683.3 | 354.8 | 97.64 | 157680.0 | 354.8 | 97.64 |
| 50% | Vnom | 225423.3 | 354.5 | 97.67 | 225410.0 | 354.5 | 97.68 | 225400.0 | 354.5 | 97.68 | 225406.7 | 354.5 | 97.68 | 225410.0 | 354.5 | 97.69 |
| 75% | Vnom | 350076.7 | 354.1 | 97.33 | 350086.7 | 354.1 | 97.33 | 350066.7 | 354.1 | 97.33 | 350046.7 | 354.1 | 97.33 | 350033.3 | 354.1 | 97.33 |
| 100% | Vnom | 476393.3 | 353.7 | 96.33 | 476323.3 | 353.7 | 96.34 | 476280.0 | 353.8 | 96.34 | 476270.0 | 353.8 | 96.34 | 476270.0 | 353.8 | 96.34 |
| 10% | Vmax | 45491.7 | 482.2 | 92.80 | 45491.3 | 482.2 | 92.80 | 45490.0 | 482.2 | 92.80 | 45487.0 | 482.2 | 92.80 | 45480.3 | 482.2 | 92.80 |
| 20% | Vmax | 106720.0 | 482.2 | 96.09 | 106716.7 | 482.2 | 96.09 | 106710.0 | 482.2 | 96.09 | 106703.3 | 482.2 | 96.09 | 106700.0 | 482.3 | 96.09 |
| 30% | Vmax | 157610.0 | 481.9 | 96.70 | 157596.7 | 481.9 | 96.70 | 157586.7 | 481.9 | 96.70 | 157580.0 | 481.9 | 96.70 | 157573.3 | 481.9 | 96.70 |
| 50% | Vmax | 228503.3 | 481.5 | 96.97 | 228513.3 | 481.5 | 96.97 | 228513.3 | 481.5 | 96.97 | 228530.0 | 481.5 | 96.97 | 228560.0 | 481.5 | 96.97 |
| 75% | Vmax | 350193.3 | 481.6 | 96.79 | 350186.7 | 481.6 | 96.79 | 350180.0 | 481.6 | 96.79 | 350206.7 | 481.6 | 96.79 | 350260.0 | 481.6 | 96.79 |
| 100% | Vmax | 476060.0 | 480.3 | 95.88 | 476073.3 | 480.3 | 95.88 | 476073.3 | 480.3 | 95.88 | 476086.7 | 480.3 | 95.87 | 476096.7 | 480.3 | 95.87 |

| 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 | 44273.0 | 314.5 | 96.62 | 44276.3 | 314.5 | 96.62 | | | | | | | | | |
| 20% | Vmin | 105250.0 | 311.4 | 97.97 | 105250.0 | 311.4 | 97.97 | | | | | | | | | |
| 30% | Vmin | 162003.3 | 311.1 | 98.03 | 161990.0 | 311.1 | 98.02 | | | | | | | | | |
| 50% | Vmin | 229783.3 | 310.8 | 98.00 | 229786.7 | 310.9 | 98.00 | | | | | | | | | |
| 75% | Vmin | 356293.3 | 312.5 | 97.59 | 356363.3 | 312.5 | 97.59 | | | | | | | | | |
| 100% | Vmin | 477783.3 | 309.9 | 96.66 | 477743.3 | 309.9 | 96.66 | | | | | | | | | |
| 10% | Vnom | 45867.7 | 355.4 | 95.90 | 45864.7 | 355.4 | 95.90 | | | | | | | | | |
| 20% | Vnom | 106400.0 | 355.1 | 97.44 | 106400.0 | 355.0 | 97.44 | | | | | | | | | |
| 30% | Vnom | 157676.7 | 354.8 | 97.64 | 157683.3 | 354.8 | 97.64 | | | | | | | | | |
| 50% | Vnom | 225403.3 | 354.5 | 97.69 | 225400.0 | 354.5 | 97.69 | | | | | | | | | |
| 75% | Vnom | 350046.7 | 354.1 | 97.33 | 350073.3 | 354.1 | 97.33 | | | | | | | | | |
| 100% | Vnom | 476243.3 | 353.8 | 96.34 | 476216.7 | 353.8 | 96.34 | | | | | | | | | |
| 10% | Vmax | 45475.3 | 482.2 | 92.80 | 45470.3 | 482.2 | 92.80 | | | | | | | | | |
| 20% | Vmax | 106700.0 | 482.3 | 96.10 | 106690.0 | 482.3 | 96.10 | | | | | | | | | |
| 30% | Vmax | 157576.7 | 481.9 | 96.71 | 157573.3 | 481.9 | 96.71 | | | | | | | | | |
| 50% | Vmax | 228586.7 | 481.5 | 96.97 | 228610.0 | 481.5 | 96.98 | | | | | | | | | |
| 75% | Vmax | 350266.7 | 481.6 | 96.79 | 350280.0 | 481.5 | 96.80 | | | | | | | | | |
| 100% | Vmax | 476090.0 | 480.3 | 95.87 | 476090.0 | 480.3 | 95.86 | | | | | | | | | |