Manufacturer: Perfect Galaxy International Ltd.

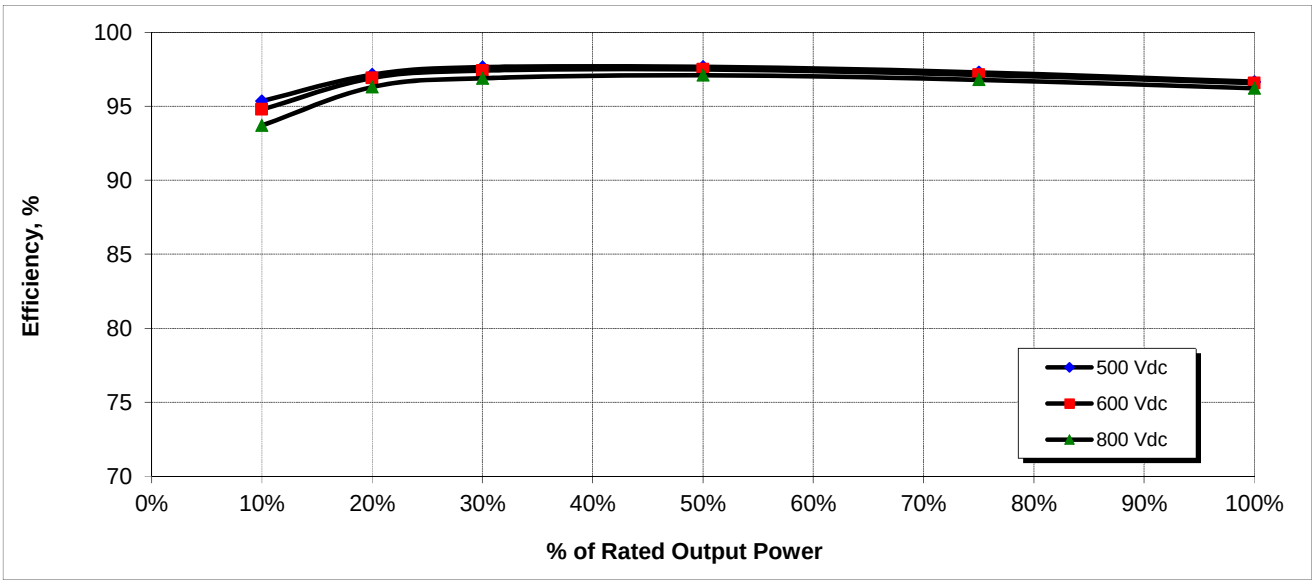
Model #: EQX0750UV320XP(N)

Rated Maximum Continuous Output Power: 750.00 kW  Night Tare Loss: 121 W

Vmin: 500 Vdc  Vnom: 600 Vdc  Vmax: 800 Vdc

| | | Power Level (%; kW) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 75.00 | 150.00 | 225.00 | 375.00 | 562.50 | 750.00 | Wtd |
| Vmin | 500 | 95.36 | 97.14 | 97.65 | 97.67 | 97.30 | 96.66 | 97.30 |
| Vnom | 600 | 94.79 | 96.92 | 97.41 | 97.50 | 97.14 | 96.57 | 97.11 |
| Vmax | 800 | 93.71 | 96.31 | 96.90 | 97.10 | 96.80 | 96.21 | 96.70 |

**CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%**



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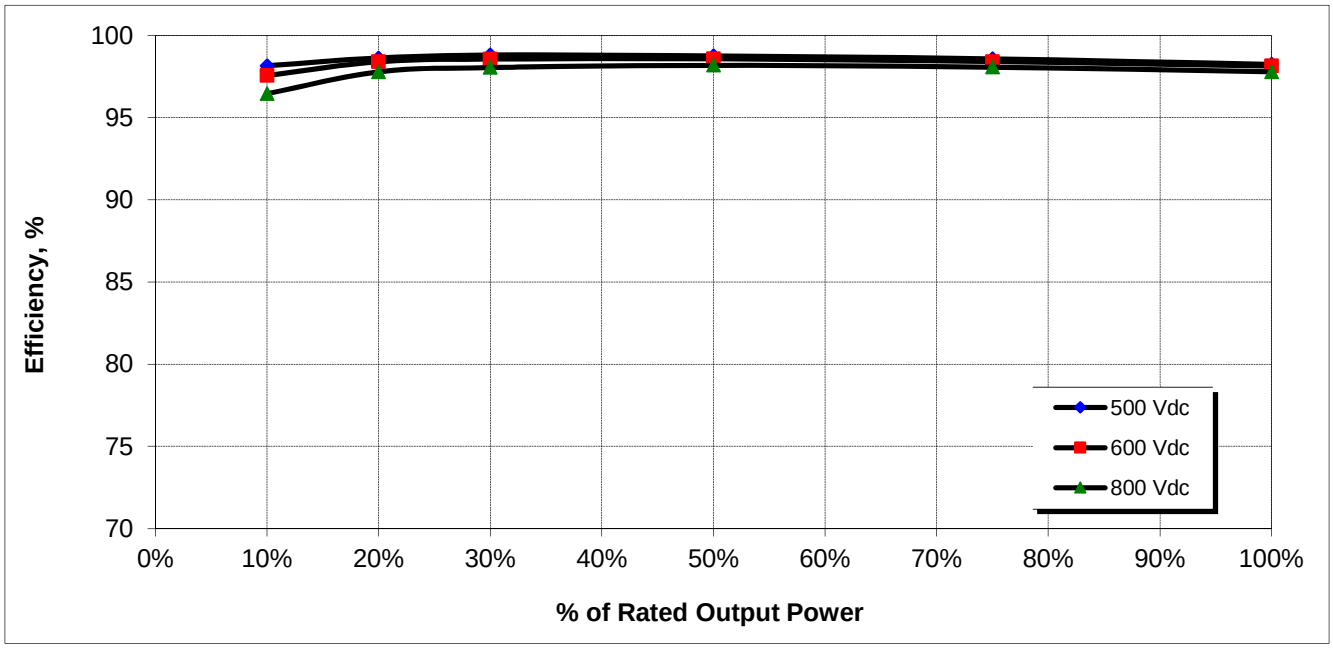
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 75.00 | 150.00 | 225.00 | 375.00 | 562.50 | 750.00 | Wtd |
| Vmin | 500 | 98.16 | 98.63 | 98.81 | 98.76 | 98.58 | 98.24 | 98.62 |
| Vnom | 600 | 97.57 | 98.40 | 98.57 | 98.58 | 98.41 | 98.15 | 98.42 |
| Vmax | 800 | 96.46 | 97.79 | 98.05 | 98.18 | 98.07 | 97.79 | 98.00 |

**Inverter Efficiency only = 98.5%**




**750kVA TP1 Transformer Efficiency**

| | | Power Level (%; kW) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 75.00 | 150.00 | 225.00 | 375.00 | 562.50 | 750.00 | Wtd |
| Vmin | 500 | 97.15 | 98.49 | 98.83 | 98.90 | 98.70 | 98.39 | 98.70 |
| Vnom | 600 | 97.15 | 98.49 | 98.83 | 98.90 | 98.70 | 98.39 | 98.70 |
| Vmax | 800 | 97.15 | 98.49 | 98.83 | 98.90 | 98.70 | 98.39 | 98.70 |

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 | 73692.33 | 502.00 | 98.19 | 73765.67 | 501.99 | 98.14 | 73706.33 | 501.99 | 98.14 | 73779.33 | 502.02 | 98.13 | 73676.33 | 502.01 | 98.16 |
| 20% | Vmin | 157394.33 | 501.80 | 98.64 | 157533.00 | 501.80 | 98.63 | 157362.00 | 501.80 | 98.63 | 157415.00 | 501.82 | 98.62 | 157393.33 | 501.82 | 98.63 |
| 30% | Vmin | 233540.00 | 501.63 | 98.80 | 233456.67 | 501.64 | 98.81 | 233433.33 | 501.65 | 98.81 | 233496.67 | 501.66 | 98.81 | 233506.67 | 501.66 | 98.81 |
| 50% | Vmin | 399280.00 | 500.27 | 98.75 | 399780.00 | 500.28 | 98.76 | 399120.00 | 500.27 | 98.76 | 399170.00 | 500.28 | 98.76 | 398990.00 | 500.28 | 98.76 |
| 75% | Vmin | 562503.33 | 500.87 | 98.60 | 561130.00 | 500.88 | 98.59 | 562036.67 | 500.87 | 98.58 | 562486.67 | 500.87 | 98.57 | 561610.00 | 500.87 | 98.59 |
| 100% | Vmin | 749336.67 | 500.40 | 98.23 | 750173.33 | 500.45 | 98.23 | 750486.67 | 500.43 | 98.25 | 749073.33 | 500.44 | 98.26 | 749160.00 | 500.45 | 98.23 |
| 10% | Vnom | 71183.33 | 600.94 | 97.57 | 71061.00 | 600.94 | 97.57 | 71234.67 | 600.94 | 97.56 | 70975.00 | 600.96 | 97.58 | 71177.67 | 600.93 | 97.54 |
| 20% | Vnom | 154725.00 | 600.73 | 98.41 | 154803.00 | 600.74 | 98.40 | 154719.00 | 600.75 | 98.41 | 154919.67 | 600.75 | 98.39 | 154651.67 | 600.75 | 98.40 |
| 30% | Vnom | 230636.67 | 600.58 | 98.57 | 230480.00 | 600.58 | 98.57 | 230470.00 | 600.62 | 98.57 | 230376.67 | 600.60 | 98.56 | 230276.67 | 600.61 | 98.56 |
| 50% | Vnom | 387986.67 | 599.28 | 98.59 | 387856.67 | 599.27 | 98.58 | 388286.67 | 599.28 | 98.58 | 388413.33 | 599.28 | 98.57 | 388386.67 | 599.30 | 98.59 |
| 75% | Vnom | 552326.67 | 599.89 | 98.40 | 551866.67 | 599.92 | 98.42 | 552453.33 | 599.92 | 98.42 | 552236.67 | 599.94 | 98.41 | 551810.00 | 599.92 | 98.42 |
| 100% | Vnom | 744543.33 | 599.58 | 98.16 | 744576.67 | 599.62 | 98.17 | 744646.67 | 599.56 | 98.17 | 744096.67 | 599.58 | 98.15 | 745286.67 | 599.58 | 98.15 |
| 10% | Vmax | 70678.67 | 798.55 | 96.51 | 70550.33 | 798.53 | 96.49 | 70671.00 | 798.54 | 96.47 | 70536.67 | 798.53 | 96.42 | 70619.67 | 798.51 | 96.44 |
| 20% | Vmax | 154116.67 | 798.36 | 97.79 | 154218.33 | 798.35 | 97.78 | 154125.33 | 798.36 | 97.78 | 154249.67 | 798.35 | 97.79 | 154211.67 | 798.35 | 97.79 |
| 30% | Vmax | 229943.33 | 797.20 | 98.03 | 229826.67 | 797.17 | 98.06 | 230060.00 | 797.16 | 98.04 | 229843.33 | 797.16 | 98.05 | 229840.00 | 797.19 | 98.05 |
| 50% | Vmax | 387633.33 | 797.93 | 98.16 | 387620.00 | 797.90 | 98.19 | 387606.67 | 797.92 | 98.17 | 387870.00 | 797.90 | 98.20 | 387693.33 | 797.89 | 98.19 |
| 75% | Vmax | 551103.33 | 797.56 | 98.09 | 551370.00 | 797.55 | 98.07 | 551056.67 | 797.59 | 98.07 | 551123.33 | 797.59 | 98.07 | 551116.67 | 797.57 | 98.07 |
| 100% | Vmax | 746626.67 | 799.36 | 97.81 | 747430.00 | 799.37 | 97.79 | 745653.33 | 799.34 | 97.74 | 746520.00 | 799.35 | 97.79 | 746580.00 | 799.34 | 97.81 |

| 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 | 73769.67 | 502.03 | 98.16 | 73749.33 | 502.02 | 98.16 | | | | | | | | | |
| 20% | Vmin | 157419.00 | 501.82 | 98.63 | 157480.00 | 501.83 | 98.63 | | | | | | | | | |
| 30% | Vmin | 233563.33 | 501.65 | 98.81 | 233456.67 | 501.64 | 98.82 | | | | | | | | | |
| 50% | Vmin | 398890.00 | 500.28 | 98.77 | 398786.67 | 500.28 | 98.74 | | | | | | | | | |
| 75% | Vmin | 561523.33 | 500.90 | 98.59 | 562616.67 | 500.87 | 98.57 | | | | | | | | | |
| 100% | Vmin | 749540.00 | 500.54 | 98.24 | 749450.00 | 500.47 | 98.27 | | | | | | | | | |
| 10% | Vnom | 71100.33 | 600.95 | 97.54 | 71291.00 | 600.95 | 97.61 | | | | | | | | | |
| 20% | Vnom | 154809.67 | 600.78 | 98.40 | 154626.00 | 600.75 | 98.41 | | | | | | | | | |
| 30% | Vnom | 230433.33 | 600.60 | 98.57 | 230393.33 | 600.62 | 98.57 | | | | | | | | | |
| 50% | Vnom | 388356.67 | 599.28 | 98.58 | 388646.67 | 599.30 | 98.58 | | | | | | | | | |
| 75% | Vnom | 552400.00 | 599.95 | 98.42 | 552306.67 | 599.93 | 98.41 | | | | | | | | | |
| 100% | Vnom | 745496.67 | 599.56 | 98.13 | 744990.00 | 599.56 | 98.12 | | | | | | | | | |
| 10% | Vmax | 70509.67 | 798.50 | 96.45 | 70619.67 | 798.51 | 96.45 | | | | | | | | | |
| 20% | Vmax | 154230.67 | 798.37 | 97.79 | 154230.67 | 798.34 | 97.78 | | | | | | | | | |
| 30% | Vmax | 230013.33 | 797.16 | 98.06 | 229856.67 | 797.18 | 98.04 | | | | | | | | | |
| 50% | Vmax | 387160.00 | 797.89 | 98.19 | 387480.00 | 797.89 | 98.20 | | | | | | | | | |
| 75% | Vmax | 550050.00 | 797.59 | 98.06 | 551016.67 | 797.59 | 98.06 | | | | | | | | | |
| 100% | Vmax | 746246.67 | 799.34 | 97.79 | 746313.33 | 799.34 | 97.79 | | | | | | | | | |