Manufacturer: Perfect Galaxy International Ltd.

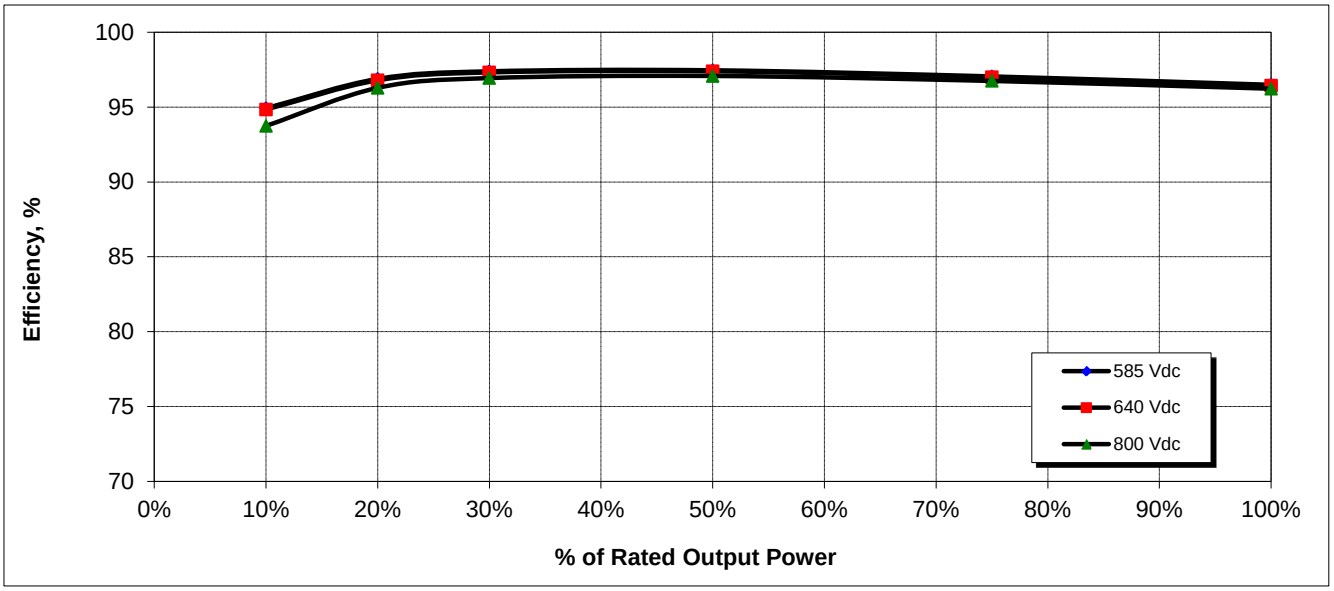
Model #: EQX0630UV360XP(N)

Rated Maximum Continuous Output Power: 630.00 kW  Night Tare Loss: 102 W

Vmin: 585 Vdc  Vnom: 640 Vdc  Vmax: 800 Vdc

| | | Power Level (%; kW) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 63.00 | 126.00 | 189.00 | 315.00 | 472.50 | 630.00 | Wtd |
| Vmin | 585 | 94.93 | 96.89 | 97.39 | 97.46 | 97.05 | 96.49 | 97.06 |
| Vnom | 640 | 94.85 | 96.79 | 97.32 | 97.40 | 97.00 | 96.44 | 97.00 |
| Vmax | 800 | 93.75 | 96.29 | 96.94 | 97.08 | 96.75 | 96.23 | 96.68 |

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



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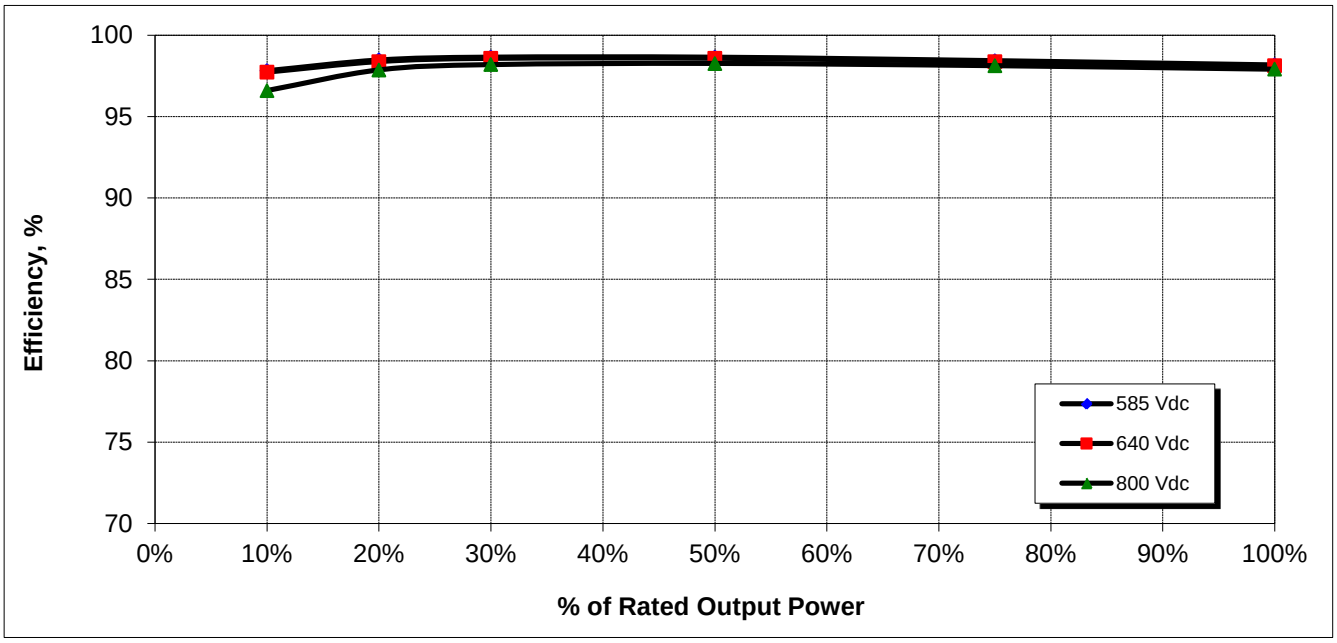
| | | Power Level (%; kW) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 63.00 | 126.00 | 189.00 | 315.00 | 472.50 | 630.00 | Wtd |
| Vmin | 585 | 97.81 | 98.47 | 98.65 | 98.65 | 98.43 | 98.17 | 98.47 |
| Vnom | 640 | 97.73 | 98.38 | 98.57 | 98.58 | 98.37 | 98.12 | 98.40 |
| Vmax | 800 | 96.60 | 97.86 | 98.19 | 98.26 | 98.13 | 97.91 | 98.08 |

**Inverter Efficiency only = 98.5%**




**630kVA TP1 Transformer Efficiency**

| | | Power Level (%; kW) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 63.00 | 126.00 | 189.00 | 315.00 | 472.50 | 630.00 | Wtd |
| Vmin | 585 | 97.05 | 98.39 | 98.73 | 98.80 | 98.60 | 98.29 | 98.57 |
| Vnom | 640 | 97.05 | 98.39 | 98.73 | 98.80 | 98.60 | 98.29 | 98.57 |
| Vmax | 800 | 97.05 | 98.39 | 98.73 | 98.80 | 98.60 | 98.29 | 98.57 |

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 | 61741.67 | 588.99 | 97.82 | 61741.00 | 588.97 | 97.82 | 61737.33 | 589.01 | 97.81 | 61742.00 | 588.98 | 97.81 | 61742.67 | 588.99 | 97.82 |
| 20% | Vmin | 135062.00 | 586.25 | 98.47 | 135060.00 | 586.26 | 98.47 | 135059.33 | 586.25 | 98.47 | 135063.00 | 586.26 | 98.48 | 135062.67 | 586.28 | 98.47 |
| 30% | Vmin | 203489.33 | 586.98 | 98.65 | 203493.00 | 586.96 | 98.65 | 203491.67 | 586.96 | 98.65 | 203486.67 | 586.97 | 98.65 | 203486.33 | 586.96 | 98.65 |
| 50% | Vmin | 284396.67 | 586.45 | 98.64 | 284397.67 | 586.46 | 98.64 | 284393.67 | 586.45 | 98.64 | 284391.00 | 586.47 | 98.65 | 284387.00 | 586.46 | 98.65 |
| 75% | Vmin | 443014.67 | 586.38 | 98.43 | 443005.00 | 586.42 | 98.43 | 443013.00 | 586.38 | 98.43 | 442995.67 | 586.40 | 98.43 | 443000.67 | 586.40 | 98.43 |
| 100% | Vmin | 601732.67 | 585.44 | 98.17 | 601725.67 | 585.43 | 98.17 | 601737.33 | 585.43 | 98.17 | 601736.67 | 585.42 | 98.17 | 601728.33 | 585.43 | 98.17 |
| 10% | Vnom | 61830.67 | 641.22 | 97.74 | 61831.67 | 641.23 | 97.74 | 61826.00 | 641.23 | 97.73 | 61826.67 | 641.24 | 97.72 | 61828.67 | 641.22 | 97.73 |
| 20% | Vnom | 133867.67 | 640.70 | 98.38 | 133863.00 | 640.70 | 98.37 | 133865.00 | 640.70 | 98.38 | 133869.67 | 640.70 | 98.38 | 133876.67 | 640.69 | 98.38 |
| 30% | Vnom | 203851.67 | 640.29 | 98.57 | 203852.67 | 640.29 | 98.57 | 203855.00 | 640.29 | 98.57 | 203851.00 | 640.29 | 98.57 | 203853.00 | 640.30 | 98.58 |
| 50% | Vnom | 284878.33 | 639.77 | 98.58 | 284884.33 | 639.79 | 98.58 | 284875.33 | 639.78 | 98.58 | 284878.33 | 639.79 | 98.58 | 284877.00 | 639.78 | 98.58 |
| 75% | Vnom | 444398.00 | 640.62 | 98.38 | 444393.00 | 640.62 | 98.37 | 444387.00 | 640.62 | 98.37 | 444387.67 | 640.61 | 98.37 | 444380.00 | 640.61 | 98.37 |
| 100% | Vnom | 600322.00 | 639.76 | 98.12 | 600322.00 | 639.76 | 98.12 | 600328.00 | 639.79 | 98.12 | 600324.33 | 639.76 | 98.12 | 600324.33 | 639.76 | 98.12 |
| 10% | Vmax | 61672.33 | 786.53 | 96.60 | 61668.67 | 786.52 | 96.61 | 61665.00 | 786.52 | 96.61 | 61662.00 | 786.54 | 96.59 | 61664.33 | 786.53 | 96.59 |
| 20% | Vmax | 135023.00 | 787.13 | 97.87 | 135015.00 | 787.13 | 97.87 | 135015.00 | 787.13 | 97.87 | 135005.33 | 787.14 | 97.86 | 135000.33 | 787.15 | 97.86 |
| 30% | Vmax | 203751.67 | 785.70 | 98.19 | 203741.00 | 785.69 | 98.20 | 203749.33 | 785.70 | 98.19 | 203746.33 | 785.70 | 98.19 | 203742.00 | 785.72 | 98.19 |
| 50% | Vmax | 284297.33 | 786.41 | 98.27 | 284293.67 | 786.42 | 98.26 | 284293.33 | 786.41 | 98.26 | 284294.00 | 786.41 | 98.26 | 284298.33 | 786.38 | 98.26 |
| 75% | Vmax | 443566.67 | 787.42 | 98.12 | 443561.00 | 787.43 | 98.13 | 443562.67 | 787.42 | 98.13 | 443563.00 | 787.43 | 98.13 | 443554.33 | 787.42 | 98.12 |
| 100% | Vmax | 599390.67 | 786.73 | 97.91 | 599386.00 | 786.75 | 97.91 | 599396.33 | 786.77 | 97.91 | 599385.33 | 786.76 | 97.91 | 599392.33 | 786.74 | 97.90 |

| 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 | 61740.67 | 588.98 | 97.81 | 61743.33 | 589.00 | 97.81 | | | | | | | | | |
| 20% | Vmin | 135066.67 | 586.25 | 98.47 | 135070.00 | 586.26 | 98.47 | | | | | | | | | |
| 30% | Vmin | 203485.67 | 586.98 | 98.65 | 203485.00 | 586.99 | 98.65 | | | | | | | | | |
| 50% | Vmin | 284386.00 | 586.47 | 98.65 | 284386.00 | 586.45 | 98.65 | | | | | | | | | |
| 75% | Vmin | 442993.33 | 586.39 | 98.43 | 442999.67 | 586.38 | 98.43 | | | | | | | | | |
| 100% | Vmin | 601747.67 | 585.41 | 98.17 | 601734.00 | 585.42 | 98.17 | | | | | | | | | |
| 10% | Vnom | 61827.67 | 641.24 | 97.72 | 61821.00 | 641.22 | 97.71 | | | | | | | | | |
| 20% | Vnom | 133877.00 | 640.70 | 98.38 | 133880.67 | 640.70 | 98.37 | | | | | | | | | |
| 30% | Vnom | 203843.33 | 640.30 | 98.58 | 203847.67 | 640.30 | 98.58 | | | | | | | | | |
| 50% | Vnom | 284880.33 | 639.78 | 98.58 | 284876.00 | 639.77 | 98.58 | | | | | | | | | |
| 75% | Vnom | 444386.33 | 640.61 | 98.37 | 444386.33 | 640.61 | 98.37 | | | | | | | | | |
| 100% | Vnom | 600320.67 | 639.76 | 98.12 | 600318.00 | 639.76 | 98.12 | | | | | | | | | |
| 10% | Vmax | 61671.00 | 786.55 | 96.59 | 61664.33 | 786.55 | 96.59 | | | | | | | | | |
| 20% | Vmax | 134989.67 | 787.15 | 97.86 | 134989.67 | 787.15 | 97.86 | | | | | | | | | |
| 30% | Vmax | 203740.00 | 785.72 | 98.19 | 203747.00 | 785.73 | 98.19 | | | | | | | | | |
| 50% | Vmax | 284289.67 | 786.40 | 98.27 | 284293.33 | 786.42 | 98.27 | | | | | | | | | |
| 75% | Vmax | 443555.00 | 787.41 | 98.13 | 443556.67 | 787.42 | 98.13 | | | | | | | | | |
| 100% | Vmax | 599382.67 | 786.78 | 97.90 | 599386.00 | 786.76 | 97.90 | | | | | | | | | |