Manufacturer: SHANGHAI CHINT POWER SYSTEMS CO., LTD

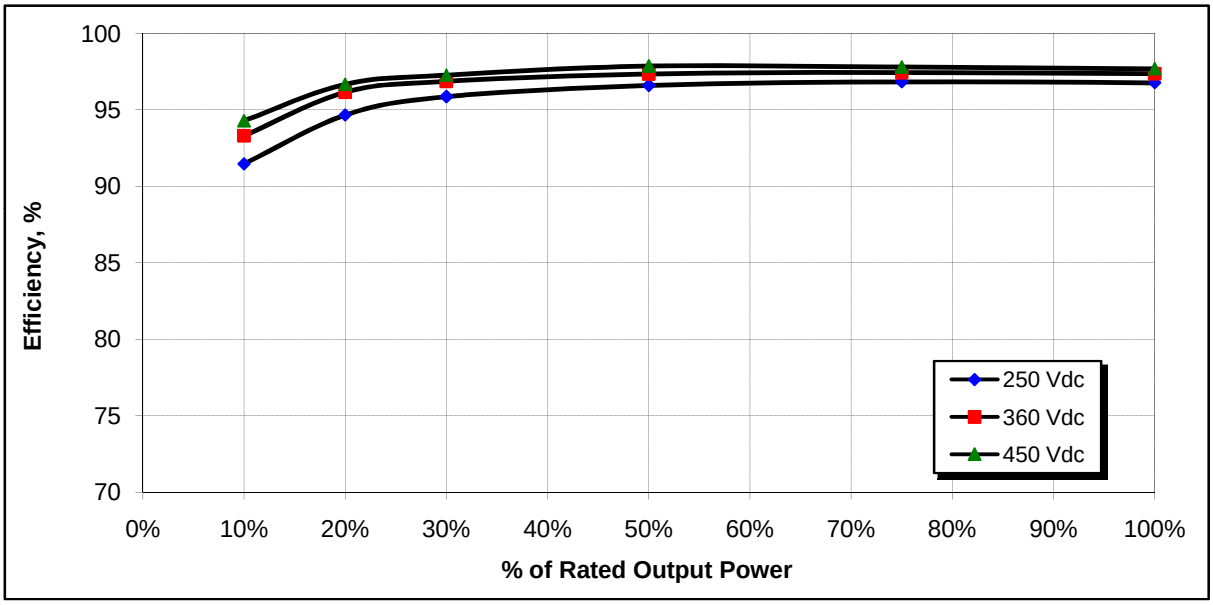
Model #: CPS SCE6KTL-O/US (277Vac)

Rated Maximum Continuous Output Power: 6.00 kW  Night Tare Loss: 0.07 W

Vmin: 250 Vdc  Vnom: 360 Vdc  Vmax: 450 Vdc

| | | Power Level (%; kW) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 0.60 | 1.20 | 1.80 | 3.00 | 4.50 | 6.00 | Wtd |
| Vmin | 250 | 91.5 | 94.7 | 95.9 | 96.6 | 96.8 | 96.8 | 96.3 |
| Vnom | 360 | 93.3 | 96.2 | 96.9 | 97.4 | 97.4 | 97.4 | 97.1 |
| Vmax | 450 | 94.3 | 96.7 | 97.3 | 97.9 | 97.8 | 97.7 | 97.6 |

**CEC Efficiency = 97.0%**




Equipment Used:

| Asset# | Description | Mfg | Model | Cal Date | Cal Due |
|---|---|---|---|---|---|
| EC0268 | Power Analyzer | N4L | PPA2630 | Feb. 8, 2010 | Feb. 7, 2011 |
| EC0233 | Hybrid Recorder | YOKOGAWA | DR 230 | Nov. 4, 2009 | Nov. 3, 2010 |
| EC0229 | Humidity Chamber | TERCHY | MHU-800LSA | Jul. 9, 2010 | Jul. 8, 2011 |

Test Engineer:Alan Weng  Date:Sep. 30, 2010

Minimum of 5 samples required

Inverter Efficiency Data

| 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 | 0.56 | 251.50 | 91.52 | 0.56 | 256.13 | 91.55 | 0.56 | 254.29 | 91.36 | 0.56 | 251.48 | 91.55 | 0.56 | 255.62 | 91.33 |
| 20% | Vmin | 1.23 | 251.09 | 94.69 | 1.23 | 251.96 | 94.58 | 1.23 | 251.95 | 94.64 | 1.23 | 251.94 | 94.77 | 1.23 | 252.78 | 94.63 |
| 30% | Vmin | 1.81 | 251.26 | 95.81 | 1.81 | 251.22 | 95.90 | 1.81 | 251.48 | 95.89 | 1.81 | 251.99 | 95.85 | 1.81 | 250.74 | 95.88 |
| 50% | Vmin | 2.99 | 250.85 | 96.58 | 2.99 | 250.46 | 96.59 | 2.99 | 250.84 | 96.65 | 2.99 | 250.11 | 96.59 | 2.99 | 250.30 | 96.61 |
| 75% | Vmin | 4.53 | 249.08 | 96.85 | 4.53 | 249.19 | 96.83 | 4.53 | 249.21 | 96.84 | 4.53 | 249.68 | 96.85 | 4.53 | 249.40 | 96.85 |
| 100% | Vmin | 5.97 | 249.02 | 96.74 | 5.97 | 248.56 | 96.79 | 5.97 | 248.56 | 96.79 | 5.97 | 248.39 | 96.78 | 5.97 | 248.49 | 96.78 |
| 10% | Vnom | 0.57 | 355.22 | 93.21 | 0.57 | 353.63 | 93.10 | 0.57 | 364.92 | 93.45 | 0.57 | 367.24 | 93.59 | 0.57 | 365.64 | 93.18 |
| 20% | Vnom | 1.25 | 362.77 | 96.15 | 1.25 | 358.98 | 96.04 | 1.25 | 362.12 | 96.14 | 1.25 | 360.93 | 96.21 | 1.25 | 364.63 | 96.25 |
| 30% | Vnom | 1.83 | 361.46 | 96.92 | 1.83 | 362.07 | 96.82 | 1.83 | 360.72 | 96.95 | 1.83 | 363.20 | 96.78 | 1.83 | 362.06 | 96.86 |
| 50% | Vnom | 3.02 | 361.61 | 97.37 | 3.02 | 360.79 | 97.34 | 3.02 | 360.90 | 97.34 | 3.02 | 361.38 | 97.34 | 3.02 | 360.19 | 97.40 |
| 75% | Vnom | 4.56 | 360.82 | 97.40 | 4.56 | 360.76 | 97.43 | 4.56 | 361.74 | 97.43 | 4.56 | 360.86 | 97.44 | 4.56 | 360.73 | 97.51 |
| 100% | Vnom | 6.01 | 358.85 | 97.37 | 6.01 | 360.83 | 97.40 | 6.01 | 360.26 | 97.34 | 6.01 | 359.54 | 97.37 | 6.01 | 358.85 | 97.39 |
| 10% | Vmax | 0.58 | 456.26 | 94.44 | 0.58 | 458.56 | 94.32 | 0.57 | 460.12 | 94.02 | 0.57 | 455.16 | 94.03 | 0.58 | 457.57 | 94.62 |
| 20% | Vmax | 1.25 | 454.00 | 96.74 | 1.25 | 455.79 | 96.67 | 1.25 | 455.37 | 96.72 | 1.25 | 455.82 | 96.48 | 1.25 | 455.88 | 96.77 |
| 30% | Vmax | 1.84 | 453.49 | 97.30 | 1.84 | 454.55 | 97.46 | 1.84 | 453.83 | 97.27 | 1.84 | 452.89 | 97.34 | 1.83 | 453.60 | 97.04 |
| 50% | Vmax | 3.03 | 453.49 | 97.88 | 3.03 | 453.12 | 97.86 | 3.03 | 452.21 | 97.84 | 3.04 | 452.14 | 97.93 | 3.03 | 452.96 | 97.88 |
| 75% | Vmax | 4.57 | 452.39 | 97.74 | 4.58 | 452.19 | 97.79 | 4.58 | 453.17 | 97.81 | 4.58 | 452.41 | 97.86 | 4.58 | 453.04 | 97.88 |
| 100% | Vmax | 6.03 | 452.32 | 97.73 | 6.03 | 452.28 | 97.66 | 6.03 | 451.26 | 97.68 | 6.03 | 452.13 | 97.70 | 6.03 | 453.19 | 97.75 |

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