# GMI G102 20 Kw Generator Temperature Rise Test

Rating = 30 Kw @ 185 Rpm

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|---|---|
| Date = | 02/02/10 |
| Amb Air = | 25.0 Deg C |
| Test By = | Paul Lillington |
| Air Flow = | 6 M/sec (to replicate real world wind turbine conditions) |
| Enclosure = | IP55 |

| Read No | Run Time Hours | Run Time (min) | Power Out (Watts) | Amps | RMS Volts | Inner Stator Temperature | Outer Stator Temperature | Case Temperature |
|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0.00 | 30,037.92 | 82.35 | 210.60 | 25.00 | 25.00 | 25.00 |
| 2 | 0.25 | 15.00 | 30,081.38 | 83.50 | 208.00 | 58.00 | 50.00 | 45.00 |
| 3 | 0.5 | 30.00 | 30,535.02 | 84.80 | 207.90 | 73.00 | 64.00 | 59.00 |
| 4 | 0.75 | 45.00 | 30,539.87 | 85.10 | 207.20 | 85.00 | 72.00 | 67.00 |
| 5 | 1 | 60.00 | 30,505.72 | 85.50 | 206.00 | 92.30 | 76.00 | 71.00 |
| 6 | 1.25 | 75.00 | 30,584.65 | 86.35 | 204.50 | 95.50 | 80.00 | 75.00 |
| 7 | 1.5 | 90.00 | 30,791.44 | 87.49 | 203.20 | 96.00 | 80.50 | 75.50 |
| 8 | 1.75 | 105.00 | 30,744.63 | 87.40 | 203.10 | 96.80 | 81.00 | 76.00 |
| 9 | 2 | 120.00 | 30,658.13 | 87.24 | 202.90 | 97.70 | 81.60 | 76.60 |
| 10 | 2.25 | 135.00 | 30,658.13 | 87.24 | 202.90 | 98.00 | 82.00 | 77.00 |
| 11 | 2.5 | 150.00 | 30,658.13 | 87.24 | 202.90 | 98.10 | 82.00 | 77.00 |
| 12 | 2.75 | 165.00 | 30,658.13 | 87.24 | 202.90 | 98.00 | 82.00 | 77.00 |
| 13 | 3 | 180.00 | 30,658.13 | 87.24 | 202.90 | 98.20 | 82.00 | 77.00 |
| 14 | 3.25 | 195.00 | 30,658.13 | 87.24 | 202.90 | 98.10 | 82.00 | 77.00 |
| 15 | 3.5 | 210.00 | 30,658.13 | 87.24 | 202.90 | 98.20 | 82.00 | 77.00 |
| 16 | 3.75 | 225.00 | 30,658.13 | 87.24 | 202.90 | 98.30 | 82.00 | 77.00 |
| 17 | 4 | 240.00 | 30,658.13 | 87.24 | 202.90 | 98.20 | 82.00 | 77.00 |
| 18 | 4.25 | 255.00 | 30,679.21 | 87.30 | 202.90 | 98.10 | 82.00 | 77.00 |
| 19 | 4.5 | 270.00 | 30,679.21 | 87.30 | 202.90 | 98.30 | 82.00 | 77.00 |
| 20 | 4.75 | 285.00 | 30,679.21 | 87.30 | 202.90 | 98.20 | 82.00 | 77.00 |
| 21 | 5 | 300.00 | 30,679.21 | 87.30 | 202.90 | 98.20 | 82.00 | 77.00 |
| 22 | 5.25 | 315.00 | 30,679.21 | 87.30 | 202.90 | 98.30 | 82.00 | 77.00 |
| 23 | 5.5 | 330.00 | 30,679.21 | 87.30 | 202.90 | 98.20 | 82.00 | 77.00 |
| 24 | 5.75 | 345.00 | 30,679.21 | 87.30 | 202.90 | 98.30 | 82.00 | 77.00 |
| 25 | 6 | 360.00 | 30,679.21 | 87.30 | 202.90 | 98.30 | 82.00 | 77.00 |