

## Eaton 9PX G2 UPS technical specifications (8 and 11 kVA models)

### Model overview

| Catalog number                              | Power rating (VA/watts at 240V) | Input     | Output                                        | Dimensions (HxWxD, in.) | Weight (lb.) |
|---------------------------------------------|---------------------------------|-----------|-----------------------------------------------|-------------------------|--------------|
| <b>200V – 240V output, 50/60 Hz</b>         |                                 |           |                                               |                         |              |
| 9PX8KG2                                     | 8000/8000 <sup>2</sup>          | Hardwired | (4) L6-30R, hardwired                         | 6.8 (4U) x 17.3 x 28.6  | 173.7        |
| 9PX8KMG2                                    | 8000/8000 <sup>2</sup>          | Hardwired | (4) L6-30R, hardwired                         | 6.8 (4U) x 17.3 x 32.6  | 188.7        |
| 9PX11KG2                                    | 11000/11000                     | Hardwired | (4) L6-30R, hardwired                         | 6.8 (4U) x 17.3 x 28.6  | 173.7        |
| 9PX11KMG2                                   | 11000/11000                     | Hardwired | (4) L6-30R, hardwired                         | 6.8 (4U) x 17.3 x 32.6  | 188.7        |
| <b>100V – 240V output, 50/60 Hz bundles</b> |                                 |           |                                               |                         |              |
| 9PX8KTF5G2 <sup>1</sup>                     | 8000/8000 <sup>2</sup>          | Hardwired | (3) L6-30R, (18) 5-20R, hardwired             | 12 (7U) x 17.3 x 32.6   | 315          |
| 9PX11KTF5G2 <sup>1</sup>                    | 11000/11000                     | Hardwired | (3) L6-30R, (18) 5-20R, hardwired             | 12 (7U) x 17.3 x 32.6   | 315          |
| 9PX11KTF11G2                                | 11000/11000                     | Hardwired | (4) L6-30R, (2) L14-30R, (8) 5-20R, hardwired | 12 (7U) x 17.3 x 28.6   | 377          |
| 9PX11KTF11MG2                               | 11000/11000                     | Hardwired | (4) L6-30R, (2) L14-30R, (8) 5-20R, hardwired | 12 (7U) x 17.3 x 32.6   | 392          |

1. Bundles with 9PXTFMR5G2 have output frequency of 60 Hz only.
2. 8000W output at 220-240V. De-rated to 7600W output at 208V. See power ratings on page 2.

### Battery backup times (in minutes)\*

| Model Name                                                            | Internal battery + EBM quantity | Output Power (W) | 5%     | 10%    | 20%   | 30%   | 40%   | 50%   | 60%   | 70%   | 80%   | 90%   | 100%  |
|-----------------------------------------------------------------------|---------------------------------|------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 9PX8KG2<br>9PX8KMG2<br>9PX8KTF5G2                                     | Internal                        | 8000             | 202.1  | 102.0  | 47.5  | 30.4  | 20.8  | 15.2  | 11.6  | 9.7   | 7.9   | 6.5   | 5.4   |
|                                                                       | Internal +1*EBM                 | 8000             | 440.6  | 218.4  | 106.0 | 68.7  | 48.7  | 36.9  | 29.0  | 25.1  | 20.9  | 17.7  | 15.2  |
|                                                                       | Internal +2*EBM                 | 8000             | 726.6  | 345.6  | 166.9 | 109.5 | 79.1  | 61.2  | 49.0  | 42.3  | 35.8  | 30.8  | 26.7  |
|                                                                       | Internal +3*EBM                 | 8000             | 1065.3 | 485.0  | 229.9 | 151.0 | 109.9 | 85.7  | 69.3  | 59.8  | 51.0  | 44.2  | 38.7  |
|                                                                       | Internal +4*EBM                 | 8000             | >1200  | 638.2  | 295.6 | 193.5 | 141.0 | 110.5 | 89.8  | 77.5  | 66.4  | 57.8  | 50.9  |
|                                                                       | Internal +5*EBM                 | 8000             | >1200  | 806.3  | 364.4 | 237.2 | 172.7 | 135.5 | 110.4 | 95.3  | 81.9  | 71.5  | 63.2  |
|                                                                       | Internal +6*EBM                 | 8000             | >1200  | 990.4  | 436.7 | 282.2 | 205.0 | 160.8 | 131.3 | 113.2 | 97.5  | 85.3  | 75.5  |
|                                                                       | Internal +7*EBM                 | 8000             | >1200  | 1191.2 | 512.6 | 328.7 | 238.0 | 186.5 | 152.3 | 131.3 | 113.2 | 99.2  | 87.9  |
|                                                                       | Internal +8*EBM                 | 8000             | >1200  | >1200  | 592.4 | 376.8 | 271.8 | 212.7 | 173.6 | 149.5 | 129.0 | 113.1 | 100.4 |
|                                                                       | Internal +9*EBM                 | 8000             | >1200  | >1200  | 676.2 | 426.6 | 306.3 | 239.3 | 195.1 | 168.0 | 145.0 | 127.2 | 112.9 |
|                                                                       | Internal +10*EBM                | 8000             | >1200  | >1200  | 764.2 | 478.0 | 341.8 | 266.4 | 217.0 | 186.7 | 161.1 | 141.3 | 125.5 |
|                                                                       | Internal +11*EBM                | 8000             | >1200  | >1200  | 856.4 | 531.3 | 378.2 | 294.0 | 239.2 | 205.7 | 177.3 | 155.6 | 138.2 |
|                                                                       | Internal +12*EBM                | 8000             | >1200  | >1200  | 953.1 | 586.3 | 415.5 | 322.2 | 261.8 | 224.9 | 193.8 | 170.0 | 151.0 |
| 9PX11KG2<br>9PX11KMG2<br>9PX11KTF11G2<br>9PX11KTF11MG2<br>9PX11KTF5G2 | Internal                        | 11000            | 146.0  | 74.3   | 32.2  | 19.9  | 13.2  | 9.4   | 6.9   | 5.8   | 4.6   | 3.7   | 3.1   |
|                                                                       | Internal +1*EBM                 | 11000            | 313.4  | 160.7  | 74.7  | 46.9  | 32.6  | 24.1  | 18.5  | 16.1  | 13.1  | 10.9  | 9.3   |
|                                                                       | Internal +2*EBM                 | 11000            | 504.5  | 252.6  | 119.0 | 76.4  | 54.5  | 41.3  | 32.6  | 28.1  | 23.5  | 19.9  | 17.1  |
|                                                                       | Internal +3*EBM                 | 11000            | 722.0  | 350.4  | 164.1 | 106.2 | 76.8  | 59.0  | 47.2  | 40.6  | 34.2  | 29.3  | 25.5  |
|                                                                       | Internal +4*EBM                 | 11000            | 968.9  | 455.3  | 210.3 | 136.4 | 99.2  | 76.8  | 61.9  | 53.2  | 45.2  | 39.0  | 34.1  |
|                                                                       | Internal +5*EBM                 | 11000            | >1200  | 568.1  | 257.9 | 167.1 | 121.8 | 94.7  | 76.8  | 66.0  | 56.3  | 48.8  | 42.9  |
|                                                                       | Internal +6*EBM                 | 11000            | >1200  | 689.1  | 307.1 | 198.3 | 144.6 | 112.8 | 91.7  | 78.8  | 67.5  | 58.7  | 51.7  |
|                                                                       | Internal +7*EBM                 | 11000            | >1200  | 819.0  | 358.0 | 230.2 | 167.8 | 131.0 | 106.7 | 91.7  | 78.7  | 68.6  | 60.6  |
|                                                                       | Internal +8*EBM                 | 11000            | >1200  | 958.1  | 410.8 | 262.7 | 191.2 | 149.4 | 121.8 | 104.7 | 89.9  | 78.5  | 69.5  |
|                                                                       | Internal +9*EBM                 | 11000            | >1200  | 1106.7 | 465.6 | 296.1 | 215.1 | 167.9 | 137.0 | 117.7 | 101.2 | 88.5  | 78.4  |
|                                                                       | Internal +10*EBM                | 11000            | >1200  | >1200  | 522.4 | 330.2 | 239.3 | 186.7 | 152.3 | 130.9 | 112.6 | 98.5  | 87.4  |
|                                                                       | Internal +11*EBM                | 11000            | >1200  | >1200  | 581.3 | 365.2 | 263.9 | 205.6 | 167.8 | 144.1 | 124.1 | 108.6 | 96.4  |
|                                                                       | Internal +12*EBM                | 11000            | >1200  | >1200  | 642.4 | 401.1 | 288.9 | 224.9 | 183.4 | 157.4 | 135.6 | 118.7 | 105.4 |

\*Approximate runtimes are shown and may vary with equipment, configuration, battery age, temperature, etc. View interactive runtime graphs at [www.eaton.com/9PX](http://www.eaton.com/9PX).

## Additional specifications

| General                           |                                                                                                                                                                            |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topology                          | Double-conversion online                                                                                                                                                   |
| Configuration                     | Rack/tower                                                                                                                                                                 |
| Color                             | Black and silver                                                                                                                                                           |
| Diagnostics                       | Full system self-test at power up                                                                                                                                          |
| Warranty                          | 3 years                                                                                                                                                                    |
| Rail kit                          | 4-post rail kit and tower pedestals included; Optional 2-post rail kit available, part number RK2PC                                                                        |
| Remote emergency power off (REPO) | ROO and RPO: Rear deck emergency stop connectors (for remote on/off and power off)                                                                                         |
| Package contents                  | UPS<br>Pre-installed NETWORK-M3 card<br>4-post rail kit<br>Tower pedestals<br>Quick start guide<br>RS-232 serial cable<br>USB cable<br>Cable gland for hardwire connection |
| Electrical input                  |                                                                                                                                                                            |
| Input voltage range               | Full load: 176-276V, Derating: 100-276V                                                                                                                                    |
| Nominal voltage                   | 200/208/220/230/240V                                                                                                                                                       |
| Default voltage                   | 208V                                                                                                                                                                       |
| Frequency                         | 50/60 Hz                                                                                                                                                                   |
| Frequency range                   | 60 Hz: 50–70 Hz, 50 Hz: 40–60 Hz                                                                                                                                           |
| Input power factor                | >.99                                                                                                                                                                       |
| Input current distortion (THDI)   | <3% (linear load), <5% (non-linear load)                                                                                                                                   |
| Recommended input circuit breaker | 50A (8kVA); 70A (11kVA)                                                                                                                                                    |
| Electrical output                 |                                                                                                                                                                            |
| Power ratings NEMA 8kVA           | 240/230/220V: 8000 watts<br>208V: 7600 watts<br>200V: 7200 watts                                                                                                           |
| Power ratings NEMA 11kVA          | 200V - 240V: 11000 watts                                                                                                                                                   |
| Nominal voltage                   | 208V default (200/208/220/230/240V)                                                                                                                                        |
| Output voltage regulation         | ±1% steady-state                                                                                                                                                           |
| Voltage THD                       | <1% (linear load)                                                                                                                                                          |
| Power factor                      | 1.0 (8kVA at 220V-240V), 0.95 (8kVA at 208V), 1.0 (11kVA)                                                                                                                  |
| Efficiency                        | 97% (online mode), 99% (high efficiency mode), 95.5% (battery mode)                                                                                                        |
| Transfer time                     | 0 ms                                                                                                                                                                       |

| <b>Battery</b>                                                  |                                                                                                                                                                                               |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Optional extended battery module (EBM)                          | 9PXEBM240RTG2                                                                                                                                                                                 |
| Maximum number of EBMs                                          | Add up to 12 EBMs                                                                                                                                                                             |
| Battery description                                             | Sealed, lead-acid; maintenance free                                                                                                                                                           |
| Battery management                                              | ABM+ technology: Predictive battery replacement analytics alerts users of an estimated two months of remaining battery life, while optimizing charging to increase battery lifespan up to 50% |
| Battery replacement                                             | Hot-swappable internal batteries and EBMs                                                                                                                                                     |
| Start on battery                                                | Cold-start enabled; first cold start is always forbidden                                                                                                                                      |
| <b>Communications</b>                                           |                                                                                                                                                                                               |
| User interface                                                  | Graphical display. UPS status in a single view.                                                                                                                                               |
| LEDs                                                            | Status-indicating LED bar                                                                                                                                                                     |
| Communication ports                                             | RS-232 (RJ45) ports; USB port as standard (HID). 6-foot RS-232 and USB cables included                                                                                                        |
| Communications card slot                                        | NETWORK-M3 card included                                                                                                                                                                      |
| Power management software                                       | Brightlayer software suites                                                                                                                                                                   |
| <b>Environmental &amp; standards</b>                            |                                                                                                                                                                                               |
| RoHS compliance                                                 | Yes                                                                                                                                                                                           |
| Surge protection                                                | IEEE ANSI C62.41 Cat B2                                                                                                                                                                       |
| Heat dissipation (BTU/hr; battery full charged, resistive load) | 8kVA: Online: 815; High efficiency: 165; Battery: 1137<br>11kVA: Online: 1160; High efficiency: 188; Battery: 1767                                                                            |
| Audible noise                                                   | 8kVA: <36 dB; 11kVA: <55 dB (at 1 meter, online mode, <87°F)                                                                                                                                  |
| Operating temperature                                           | 0 to 40°C (32°F to 104°F)                                                                                                                                                                     |
| Safety conformance                                              | CE / cULus / NOM / EAC / Cm / Ukr / RCM / Energy Star                                                                                                                                         |
| EMC markings                                                    | IEC 62040-2:2016 / CISPR22 Class A / FCC part 15 Class A                                                                                                                                      |
| Storage temperature                                             | 0 to 40°C (32°F to 104°F); without batteries: -25 to 55°C (-13°F to 131°F)                                                                                                                    |
| Relative humidity                                               | 0 to 95% non-condensing                                                                                                                                                                       |
| Altitude                                                        | up to 3000 meters                                                                                                                                                                             |

\*Due to continuing product improvement programs, specifications are subject to change without notice.