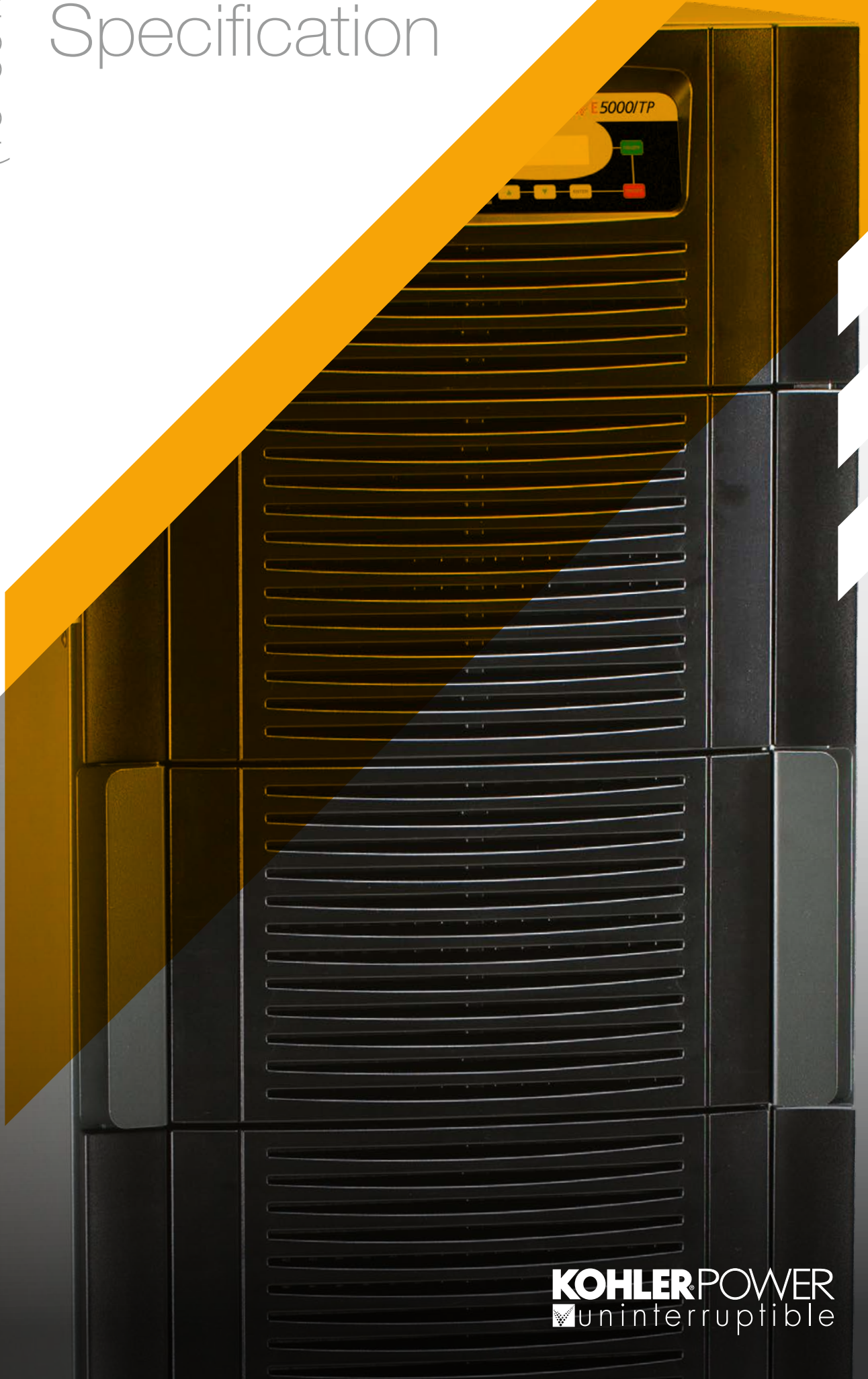


# PowerWAVE 5000/TP (10–50 kVA)

## Technical Specification



# PowerWAVE 5000/TP

| General data                               | 10 kVA  | 15 kVA  | 20 kVA | 25 kVA                                | 30 kVA | 40 kVA | 50 kVA |
|--|---|---------|--------|---------------------------------------|--------|--------|--------|
| Topology                                   | True online double conversion                                   |         |        |                                       |        |        |        |
| Parallel configuration                     | Up to 20 units  |         |        |                                       |        |        |        |
| Integral batteries                         | Yes   |         |        |                                       |        |        |        |
| <b>Input</b>                               |   |         |        |                                       |        |        |        |
| Nominal input voltage                      | 3 x 380 / 220 V + N, 3 x 400 V / 230 V + N, 3 x 415 / 240 V + N |         |        |                                       |        |        |        |
| Voltage tolerance                          | (-23%/+15%) 3 x 308/177 V to 3 x 460/264 V for <100% load       |         |        |                                       |        |        |        |
| Input distortion THDi                      | 3.0% @ 100% load  |         |        |                                       |        |        |        |
| Frequency range                            | 35–70 Hz  |         |        |                                       |        |        |        |
| Power factor                               | 0.99 @ 100% load  |         |        |                                       |        |        |        |
| <b>Output</b>                              |   |         |        |                                       |        |        |        |
| Output rated power                         | 9 kW  | 13.5 kW | 18 kW  | 22.5 kW                               | 27 kW  | 36 kW  | 45 kW  |
| Output power factor                        | 0.9   |         |        |                                       |        |        |        |
| Rated output voltage                       | 3 x 380 / 220 V + N, 3 x 400 / 230 V + N, 3 x 415 / 240 V + N   |         |        |                                       |        |        |        |
| Voltage tolerance                          | 1% static, 4% dynamic   |         |        |                                       |        |        |        |
| Voltage distortion                         | < 2% with linear load, < 4% with non-linear load                |         |        |                                       |        |        |        |
| Overload capability (0.9 p.f)              | 10 min: 110% load, 1 min: 130% load                             |         |        |                                       |        |        |        |
| Nominal frequency                          | 50 or 60 Hz   |         |        |                                       |        |        |        |
| Crest factor                               | 3:1   |         |        |                                       |        |        |        |
| <b>Efficiency</b>                          |   |         |        |                                       |        |        |        |
| Overall efficiency                         | Up to 95.5%   |         |        |                                       |        |        |        |
| In eco mode configuration                  | Up to 98%   |         |        |                                       |        |        |        |
| <b>Environment</b>                         |   |         |        |                                       |        |        |        |
| Protection rating                          | IP 20 (IP 21 option)  |         |        |                                       |        |        |        |
| Operating temperature                      | 0°C–40°C  |         |        |                                       |        |        |        |
| Positional clearances                      | Front: 900 mm minimum   |         |        |                                       |        |        |        |
|  | Left: 600 mm minimum  |         |        |                                       |        |        |        |
|  | Right: 600 mm minimum   |         |        |                                       |        |        |        |
|  | Rear: 200 mm minimum for cooling, 600 mm minimum for service    |         |        |                                       |        |        |        |
| Input & output power cabling accessibility | Cabled at the rear (A and B cabinets only)                      |         |        |                                       | –      |        |        |
|  | –   |         |        | Cabled at the front (C cabinets only) |        |        |        |
| Relative air humidity                      | Up to 95% (non condensing)                                      |         |        |                                       |        |        |        |
| <b>Batteries</b>                           |   |         |        |                                       |        |        |        |
| Min/max number of 12V blocks per string    | 22–50   | 32–50   | 32–50  | 40–50                                 | 24–50  | 32–50  | 40–50  |
| Charging current                           | 4 A   |         |        |                                       | 6 A    |        |        |
| Battery type                               | Maintenance free VRLA or NiCd                                   |         |        |                                       |        |        |        |
| <b>Standards</b>                           |   |         |        |                                       |        |        |        |
| Safety                                     | IEC/EN 62040-1-1:2003, IEC/EN 60950-1:2001/A11:2004             |         |        |                                       |        |        |        |
| EMC  | IEC/EN 62040-2:2005, IEC/EN61000-3-2:2000, IEC/EN61000-6-2:2001 |         |        |                                       |        |        |        |
| Performance                                | IEC/EN62040-3:2001  |         |        |                                       |        |        |        |



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**Tel:** 01256 386700

**Fax:** 01256 386701

**Email:** [uksales.ups@kohler.com](mailto:uksales.ups@kohler.com)

**[www.kohler-ups.co.uk](http://www.kohler-ups.co.uk)**