



The Online Rack Series, featuring microprocessor control and True Double Conversion, guarantees a stable and clean signal to all connected equipment. It allows for the installation of external battery banks across all its models, and includes protected RJ45 ports that provide protection against surges and electrical noise for your telephone, ADSL, or Ethernet connections.

## Data Sheet

| Reference                    | PH 9310                                                                                                   | PH 9315                      | PH 9320                      | PH 9330                      |
|------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------|------------------------------|------------------------------|
| Power                        | 1000 VA / 900 W                                                                                           | 1500 VA / 1350 W             | 2000 VA / 1800 W             | 3000 VA / 2700 W             |
| <b>Input</b>                 |                                                                                                           |                              |                              |                              |
| Low Line Transfer            | 160 VAC/140 VAC/120 VAC/110 VAC±<br>[100%-80% / 80%-70% / 70%-60% / 60%-0% Load]                          |                              |                              |                              |
| Low Line Comeback            | 170 VAC/150 VAC/130 VAC/120 VAC ± 5 %                                                                     |                              |                              |                              |
| High Line Transfer           | 150 VAC ± 5 % o 300 VAC ± 5 %                                                                             |                              |                              |                              |
| High Line Comeback           | 145 VAC ± 5 % o 290 VAC ± 5 %                                                                             |                              |                              |                              |
| Frequency Range              | 45 Hz ~ 55 Hz o 56 Hz ~ 65 Hz                                                                             |                              |                              |                              |
| Phase                        | Single phase + neutral                                                                                    |                              |                              |                              |
| Power Factor                 | ≥ 0.99 @ 200-230 VAC o 100-120 VAC                                                                        |                              |                              |                              |
| <b>Output</b>                |                                                                                                           |                              |                              |                              |
| Output voltage               | 200/208/220/230/240 VAC                                                                                   |                              |                              |                              |
| AC voltage regulation        | ± 1%                                                                                                      |                              |                              |                              |
| Frequency Range Sync / Bat   | 48~52 Hz 58~624 Hz / 50 Hz ± 0.2 Hz or 60 Hz ± 0.3 Hz                                                     |                              |                              |                              |
| Current Crest Ratio          | 3:1 (max.)                                                                                                |                              |                              |                              |
| Harmonic distortion          | ≤ 2 % THD (linear load) / ≤ 8 % THD (no line load)                                                        |                              |                              |                              |
| Overload Protection CA / Bat | 100%~110%: 10 min. 110%~130%: 1min. >130%: 1 sec /<br>100%~110%: 30 sec. 110%~130%: 10 sec. >130%: 1 sec. |                              |                              |                              |
| Transfer time (CA / BYPASS)  | 0 ms / 4 ms (Típico)                                                                                      |                              |                              |                              |
| Waveform (Batt.)             | Pure Sine                                                                                                 |                              |                              |                              |
| AC / Bat Efficiency          | 90 % / 89 %                                                                                               | 90 % / 89 %                  | 91 % / 89 %                  | 91 % / 89 %                  |
| <b>Battery</b>               |                                                                                                           |                              |                              |                              |
| Quantity / Type / No.        | 2x 12V / 9Ah                                                                                              | 3x 12V / 9Ah                 | 4x 12V / 9Ah                 | 6x 12V / 9Ah                 |
| Charging time (90%)          | 4 h                                                                                                       | 4 h                          | 4 h                          | 4 h                          |
| Charging Current / Voltage   | 1.0 A (Max.) / 27.4 VDC ± 1%                                                                              | 1.0 A (Max.) / 41.1 VDC ± 1% | 1.0 A (Max.) / 54.8 VDC ± 1% | 1.0 A (Max.) / 82.1 VDC ± 1% |
| <b>Characteristics</b>       |                                                                                                           |                              |                              |                              |
| Dimensions (DxWxH)           | 410 x 438 x 88 (2U)                                                                                       | 410 x 438 x 88 (2U)          | 510 x 438 x 88 (2U)          | 630 x 438 x 88 (2U)          |
| Weight (Kg)                  | 11.6                                                                                                      | 14.5                         | 19.5                         | 27.4                         |
| Operating humidity           | 20 - 90 % sin condensación @ 40° C                                                                        |                              |                              |                              |
| Noise level                  | < 50dBA @ 1 metro                                                                                         |                              |                              |                              |

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\* Reduce the capacity of the UPS to 60% in the operation of a frequency converter and 80% when the output voltage has been set to 200/208VAC.