

MEGAREVO – Data sheet

| Model             |                                                           | R6KH3                                          | R8KH3   | R10KH3 | R12KH3  | R15KH3  |
|-------------------|-----------------------------------------------------------|------------------------------------------------|---------|--------|---------|---------|
| PV Input          | Max. PV array power                                       | 9kW                                            | 12kW    | 15kW   | 18kW    | 22.5kW  |
|                   | Max. input voltage                                        | 1000 V                                         |         |        |         |         |
|                   | MPP voltage range                                         | 180 V ~ 850 V                                  |         |        |         |         |
|                   | Min. input voltage / start voltage                        | 125V/180V                                      |         |        |         |         |
|                   | No. of independent MPPT trackers / strings per MPPT input | 2 / (1/1)                                      |         |        |         |         |
|                   | Max. input current per MPP tracker                        | 13 A                                           |         |        |         |         |
|                   | Max. short-circuit current per MPP tracker                | 16A                                            |         |        |         | 25A     |
| Battery           | Battery type                                              | Lithium and Lead Acid Battery                  |         |        |         |         |
|                   | Battery voltage range                                     | 125V ~600 V                                    |         |        |         |         |
|                   | Max. charging current / Max. discharging current          | 50 A / 50A                                     |         |        |         |         |
|                   | Rated. charging current / Rated. discharging current      | 40A/40A                                        |         |        |         |         |
| AC output         | Nominal AC voltage                                        | 3W+N+PE, 220 / 380 V; 230 / 400 V; 240 / 415 V |         |        |         |         |
|                   | AC voltage range                                          | 360V~440V                                      |         |        |         |         |
|                   | Rated AC grid frequency                                   | 50 Hz / 60 Hz                                  |         |        |         |         |
|                   | AC grid frequency range                                   | 50 Hz ± 5Hz / 60 Hz ± 5Hz                      |         |        |         |         |
|                   | Rated active power                                        | 6 kW                                           | 8 kW    | 10 kW  | 12 kW   | 15 kW   |
|                   | Rated apparent power                                      | 6kVA                                           | 8kVA    | 10kVA  | 12kVA   | 15kVA   |
|                   | Max. apparent power                                       | 6.6kVA                                         | 8.8kVA  | 11 VA  | 13.2kVA | 16.5kVA |
|                   | Rated grid output Current (@400V)                         | 8.7A                                           | 11.5A   | 14.4A  | 17.3A   | 21.7 A  |
|                   | Max. grid output current                                  | 9.5A                                           | 12.7A   | 15.9A  | 19.1A   | 23.8A   |
|                   | Harmonics THDI (@ Nominal power)                          | < 3%                                           |         |        |         |         |
| AC input          | Rated grid voltage                                        | 3W+N+PE, 220 / 380 V; 230 / 400 V; 240 / 415 V |         |        |         |         |
|                   | Rated grid frequency                                      | 50Hz / 60Hz                                    |         |        |         |         |
|                   | Rated apparent power                                      | 12 kW                                          | 16 kW   | 20 kW  | 24 kW   | 30 kW   |
|                   | Max. input apparent power from grid                       | 13.2kVA                                        | 17.6kVA | 22kVA  | 26.4kVA | 33.3kVA |
|                   | Rated input current from grid                             | 17.3A                                          | 23.1 A  | 28.9A  | 34.7A   | 43.4A   |
|                   | Max. input current from grid                              | 19A                                            | 25.5 A  | 31.9A  | 38.2 A  | 47.6A   |
| BACKUP output     | Nominal output voltage                                    | 3W+N+PE, 220 / 380 V; 230 / 400 V; 240 / 415 V |         |        |         |         |
|                   | Nominal output frequency                                  | 50 Hz / 60 Hz                                  |         |        |         |         |
|                   | Rated apparent power                                      | 6kVA                                           | 8kVA    | 10kVA  | 12kVA   | 15kVA   |
|                   | Max. output apparent power                                | 6.6kVA                                         | 8.8kVA  | 11kVA  | 13.2kVA | 16.5kVA |
|                   | Peak output apparent power                                | 6.6kVA                                         | 8.8kVA  | 11kVA  | 13.2kVA | 16.5kVA |
|                   | Rated Current (@400V)                                     | 8.7A                                           | 11.5 A  | 14.4A  | 17.3 A  | 21.7A   |
|                   | Max. output current                                       | 9.5A                                           | 12.7A   | 15.9A  | 19.1A   | 23.8A   |
|                   | Max. switch time                                          | ≤20ms                                          |         |        |         |         |
| Efficiency        | MPPT efficiency                                           | ≥99.5%                                         |         |        |         |         |
|                   | Max efficiency                                            | 97.90%                                         | 97.90%  | 98.20% | 98.20%  | 98.50%  |
|                   | Euro efficiency                                           | 97.20%                                         | 97.20%  | 97.50% | 97.50%  | 97.6%   |
|                   | Max. battery to load efficiency                           | 97.50%                                         | 97.50%  | 97.50% | 97.60%  | 97.80%  |
| Safety protection | DC-side disconnection device                              | ●                                              |         |        |         |         |
|                   | PV string reverse polarity protection                     | ●                                              |         |        |         |         |
|                   | All-pole sensitive residual current monitoring unit       | ●                                              |         |        |         |         |
|                   | Anti-islanding protection                                 | ●                                              |         |        |         |         |
|                   | AC output over current protection                         | ●                                              |         |        |         |         |
|                   | AC output short circuit current protection                | ●                                              |         |        |         |         |
|                   | AC over voltage protection                                | ●                                              |         |        |         |         |
|                   | Protection class (as per IEC 62109-1)                     | I                                              |         |        |         |         |
|                   | overvoltage category (as per IEC 62109-1)                 | AC: III; DC: II                                |         |        |         |         |
| General data      | Power factor at rated power / adjustable displacement     | 0.99 / 0.8 leading to 0.8 lagging              |         |        |         |         |
|                   | Dimensions (W / H / D)                                    | 530 / 560 / 220 mm                             |         |        |         |         |

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| Model               |                                                | R6KH3                                                 | R8KH3 | R10KH3 | R12KH3 | R15KH3 |
|---------------------|------------------------------------------------|-------------------------------------------------------|-------|--------|--------|--------|
|                     | Device weight                                  | 30 kg                                                 | 30 kg | 31kg   | 32 kg  | 34 kg  |
|                     | Installation                                   | Wall-mounted                                          |       |        |        |        |
|                     | Operating temperature range                    | -25 ° C~+60 ° C                                       |       |        |        |        |
|                     | Noise emissions (typical)                      | < 35 dB(A)                                            |       |        |        |        |
|                     | Standby consumption                            | < 3 W                                                 |       |        |        |        |
|                     | Cooling concept                                | Natural convection                                    |       |        |        |        |
|                     | Ingress protection rating (as per IEC 60529)   | IP65                                                  |       |        |        |        |
|                     | Climatic category (according to IEC 60721-3-4) | 4K4H                                                  |       |        |        |        |
|                     | Max. permissible value for relative humidity   | 0~95%                                                 |       |        |        |        |
|                     | (non-condensing)                               |                                                       |       |        |        |        |
|                     | Max. operating altitude                        | 4000m (>2000m power derating)                         |       |        |        |        |
| Features            | Inverter topology (Solar/ battery)             | Transformer less / Transformer less                   |       |        |        |        |
|                     | User interface                                 | LED & App                                             |       |        |        |        |
|                     | Communication with BMS                         | RS485 / CAN                                           |       |        |        |        |
|                     | Communication with meter                       | RS485                                                 |       |        |        |        |
|                     | Communication with portal                      | WIFI stick                                            |       |        |        |        |
|                     | Integrated power control / Zero export control | ● / ●                                                 |       |        |        |        |
| Standard Compliance | Safety                                         | EN 62109-1, EN 62109-2                                |       |        |        |        |
|                     | EMC                                            | IEC 61000-6-1/-2/-3/-4, IEC 61000-3-11, IEC61000-3-12 |       |        |        |        |