

# HIGH FREQUENCY SOLAR INVERTER

## MAGiC PRO II Series

4~12KW | PV500V | Dual output | WiFi | 6pcs parallel



### Smart Control

Delivers 4–12 kW output for both residential and commercial applications.

### Smart Load Management

Dual-output design for prioritized main and critical loads.

### High-Efficiency PV Performance

Dual MPPT with a 90–450V range and PV input up to 500V.

### Intuitive Monitoring & Control

Color LCD with USB/RS485/WiFi for full system visibility.

### Scalable & Fully Protected

Supports up to 6 units in parallel with overload, short-circuit, and deep-discharge protection.

### Advanced Lithium Integration

Supports BMS communication and AC/PV activation for safer, efficient battery operation.



MAGiC

### MAIN PARAMETER

| MODEL                                 | MAGiC Pro II 6048                                               | MAGiC Pro II 8048                  | MAGiC Pro II 10048 | MAGiC Pro II 12048 |
|---------------------------------------|-----------------------------------------------------------------|------------------------------------|--------------------|--------------------|
| Default Battery System Voltage        | 48VDC                                                           |                                    |                    |                    |
| INVERTER OUTPUT                       |                                                                 |                                    |                    |                    |
| Rated Power                           | 6000VA/<br>6000W                                                | 8000VA/<br>8000W                   | 10000VA/<br>10000W | 12000VA/<br>12000W |
| Surge Power                           | 12000W                                                          | 16000W                             | 20000W             | 24000W             |
| Waveform                              | Pure sine wave                                                  |                                    |                    |                    |
| AC Voltage Regulation (Batt.Mode)     | 230VAC±5%(Setting)                                              |                                    |                    |                    |
| Inverter Efficiency(Peak)             | 92%                                                             |                                    |                    |                    |
| Transfer Time                         | 10ms(UPS / VDE4105) / 20ms(APL)                                 |                                    |                    |                    |
| AC INPUT                              |                                                                 |                                    |                    |                    |
| Voltage                               | 230VAC                                                          |                                    |                    |                    |
| Selectable Voltage Range              | 170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VDE)              |                                    |                    |                    |
| Frequency Range                       | 50Hz / 60Hz (Auto sensing)                                      |                                    |                    |                    |
| BATTERY                               |                                                                 |                                    |                    |                    |
| Normal voltage                        | 48VDC                                                           |                                    |                    |                    |
| Floating Charge Voltage               | 54.8VDC                                                         |                                    |                    |                    |
| Overcharge Protection                 | 60VDC                                                           |                                    |                    |                    |
| SOLAR CHARGER & AC CHARGER            |                                                                 |                                    |                    |                    |
| Maximum PV Array Open Circuit Voltage | 500VDC (450V for parallel)                                      |                                    |                    |                    |
| Charging Algorithm                    | 3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li) |                                    |                    |                    |
| Maximum PV Array Power                | 6000W                                                           | 4000W*2                            | 5000W*2            | 6000W*2            |
| Maximum PV Input Current              | 27A                                                             | 18A*2                              | 27A*2(40A max)     | 27A*2(40A max)     |
| PV Array MPPT Voltage Range           | 120~430VDC                                                      | 90~450VDC (90~430VDC for parallel) |                    |                    |
| Maximum Solar Charge Current          | 120A                                                            | 120A                               | 150A               | 150A               |
| Maximum AC Charge Current             | 100A                                                            | 120A                               | 150A               | 150A               |
| Maximum Charge Current                | 120A                                                            | 120A                               | 150A               | 150A               |

### OTHER PARAMETER

| MODEL                                                                                | MAGiC Pro II 6048                           | MAGiC Pro II 8048 | MAGiC Pro II 10048 | MAGiC Pro II 12048 |
|--------------------------------------------------------------------------------------|---------------------------------------------|-------------------|--------------------|--------------------|
| MECHANICAL SPECIFICATIONS                                                            |                                             |                   |                    |                    |
| Machine Dimension (W*H*D) (mm)                                                       | 309*505*147                                 | 425*527*145       |                    |                    |
| Package Dimension (W*H*D) (mm)                                                       | 603*260*400                                 | 632*257*548       |                    |                    |
| N.W (kg)                                                                             | 12.5                                        | 18.0              | 18.0               | 18.1               |
| G.W (kg)                                                                             | 13.8                                        | 20.6              | 20.6               | 20.7               |
| OTHER                                                                                |                                             |                   |                    |                    |
| Humidity                                                                             | 5% to 95% Relativ Humidity (Non-condensing) |                   |                    |                    |
| Operating Temperature Range                                                          | -10°C~50°C                                  |                   |                    |                    |
| Storage Temperature Range                                                            | -15°C ~60°C                                 |                   |                    |                    |
| Warranty                                                                             | 2 year                                      |                   |                    |                    |
| CERTIFICATION & STANDARDS                                                            |                                             |                   |                    |                    |
| CE-EMC+LVD (EN6100-6-3:2007, EN6100-6-1:2017+EN IEC62109-1:2010, EN IEC62109-2:2011) |                                             |                   |                    |                    |
| CE-LVD (IEC62109-1:2010, EN IEC62109-2:2011)                                         |                                             |                   |                    |                    |
| EN IEC62368-1:2018, EN IEC62109-1:2010, EN IEC62109-2:2011                           |                                             |                   |                    |                    |

\*The technical specifications of this document are subject to change without any notice