

# Hybrid Solar Inverter

## Three Phase - IP65 - High Frequency

Model: MR-MPH15K TWIN WP

### FEATURES

- IP65 waterproof and dustproof makes rating
- Built-in WiFi for mobile monitoring (App is available)
- 150% unbalanced load support
- 26A Maximum PV input current
- Dual outputs for smart load management
- User-adjustable charging current
- Reserved communication port for BMS (RS485)
- Parallel operation up to 6 units



### SPECIFICATION

| MODEL                                          | MR-MPH15K TWIN WP                            |
|------------------------------------------------|----------------------------------------------|
| MAXIMUM PV INPUT POWER                         | 22.5kW                                       |
| RATED OUTPUT POWER                             | 15kW                                         |
| MAXIMUM CHARGING POWER                         | 15kW                                         |
| GRID-TIE OPERATION                             |                                              |
| PV INPUT (DC)                                  |                                              |
| Nominal DC Voltage / Maximum DC Voltage        | 720VDC / 1000VDC                             |
| Start-up Voltage / Initial Feeding Voltage     | 320VDC / 350VDC                              |
| MPP Voltage Range                              | 350VDC – 950VDC                              |
| Full MPP Voltage Range                         | 420VDC – 950VDC                              |
| Number of MPP Trackers / Maximum Input Current | 2 / A: 26A, B: 26A                           |
| GRID OUTPUT (AC)                               |                                              |
| Nominal Output Voltage                         | 230VAC (P-N) / 400VAC (P-P)                  |
| Output Voltage Range                           | 184VAC – 265VAC* per phase                   |
| Nominal Output Current                         | 21.7A per phase                              |
| Power Factor range                             | 0.9 lag – 0.9 lead                           |
| EFFICIENCY                                     |                                              |
| Maximum Conversion Efficiency (DC/AC)          | >96%                                         |
| European Efficiency@ Vnominal                  | >95%                                         |
| OFF-GRID OPERATION                             |                                              |
| AC INPUT                                       |                                              |
| AC Start-up Voltage / Auto Restart Voltage     | 120VAC – 140VAC per phase / 180VAC per phase |
| Acceptable Input Voltage Range                 | 170VAC – 290VAC per phase                    |
| Maximum AC Input Current                       | 40A                                          |
| PV INPUT (DC)                                  |                                              |
| Maximum DC Voltage                             | 1000VDC                                      |
| MPP Voltage Range                              | 350VDC – 950VDC                              |
| Full MPP Voltage Range                         | 420VDC – 950VDC                              |
| Number of MPP Trackers / Maximum Input Current | 2 / A: 26A, B: 26A                           |
| BATTERY MODE OUTPUT (AC)                       |                                              |
| Nominal Output Voltage                         | 230VAC (P-N) / 400VAC (P-P)                  |
| Output Waveform                                | Pure sine wave                               |
| Efficiency (DC to AC)                          | >91%                                         |

 These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements.  
Power derating 1% every 100 m when altitude is over 1000m  
Specifications are subject to change without notice, all product drawings are for reference only.