

# ESY HM5 MAX Single Phase System



| Model              | HM5 MAX [10kWh] | HM5 MAX [15kWh] | HM5 MAX [20kWh] | HM5 MAX [25kWh] | HM5 MAX [30kWh] |
|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Battery Count      | 2               | 3               | 4               | 5               | 6               |
| Rated Output Power | 5 kW            | 5 kW            | 5 kW            | 5 kW            | 5 kW            |
| Rated Capacity     | 10.24 kWh       | 15.36 kWh       | 20.48 kWh       | 25.60 kWh       | 30.72 kWh       |
| Dimension (L*W*H)  | 600x305x1128 mm | 600x305x1348 mm | 600x305x1568 mm | 600x305x1788 mm | 600x305x2008 mm |
| Weight             | 163 kg          | 213 kg          | 263 kg          | 313 kg          | 363 kg          |

| Grid Connection Rating |                            |
|------------------------|----------------------------|
| Grid connection        | 1-phase 230 V / 35 to 40 A |

| Parameters                  | HM5 MAX                           |
|-----------------------------|-----------------------------------|
| Battery Type                | LiFePO <sub>4</sub>               |
| Cycle Life                  | ≥6000 times @ 25 °C, SOH=70%      |
| Max. Efficiency             | 97.80%                            |
| MPPT Efficiency             | 99.90%                            |
| Mounting                    | Modular Stacking/Ground           |
| Communication               | LAN/Wi-Fi/USB/RS485/CAN           |
| Software Support System     | iOS/Android/Web                   |
| Cooling Method              | Intelligent Air Cooling           |
| Operating Temperature Range | -25 ~ 60 °C (derating over 45 °C) |
| Altitude                    | ≤3000 m                           |
| Relative Humidity           | 0 ~ 100%                          |
| Noise Level                 | ≤55 dB                            |
| Ingress Protection Rating   | IP66                              |
| Warranty                    | 10 years                          |

| PV Input                   | HM5 MAX        |
|----------------------------|----------------|
| Max. Input Power           | 18 kW          |
| Max. Input Voltage         | 550 Vdc.       |
| Rated Input Voltage        | 360 Vdc.       |
| Starting Voltage           | 150 Vdc.       |
| Min. Voltage               | 100 Vdc.       |
| MPPT Input Voltage Range   | 100 ~ 540 Vdc. |
| Max. Input Current         | 30 / 30 Adc.   |
| Max. Short-Circuit Current | 40 / 40 Adc.   |
| MPPT Count                 | 2              |

| Backup Output              | HM5 MAX                     |
|----------------------------|-----------------------------|
| Rated Power                | 12 kW                       |
| Max. Output Apparent Power | 12t kVA                     |
| Rated Voltage              | 230 Vac. (220 V adjustable) |
| Rated Current              | 43.5 Aac.                   |
| Output Voltage Range       | 184 ~ 276 Vac.              |
| Rated Output Frequency     | 50 Hz                       |
| THDV                       | ≤3%                         |
| Switch Time                | ≤ 20 ms                     |

| Battery                  | HM5 MAX        |
|--------------------------|----------------|
| Rated Voltage            | 51.2 Vdc.      |
| Voltage Range            | 42 ~ 57.6 Vdc. |
| Max. Charging Current    | 196 Adc.       |
| Max. Discharging Current | 196 Adc.       |

| Grid                             | HM5 MAX                                          |
|----------------------------------|--------------------------------------------------|
| Rated Input/Output Power         | Input Power 8 to 9.2 kW / Output Power 5 to 9 kW |
| Max. Input/Output Apparent Power | 9.2KVA / 9.2 kVA                                 |
| Rated Voltage                    | 230 Vac.                                         |
| Voltage Range                    | 184 ~ 276 Vac.                                   |
| Rated Frequency                  | 50 Hz                                            |
| Rated Input Current              | 43.4 Aac.                                        |
| Rated Output Current             | 21.7 Aac.                                        |
| Power Factor                     | 0.8 leading ~ 0.8 lagging                        |
| THDI                             | ≤3%                                              |

| Smart Port                | HM5 MAX   |
|---------------------------|-----------|
| Max. Input Apparent Power | 10 kW     |
| Max. Input Current        | 43.5 Aac. |

| Protection                       | HM5 MAX |
|----------------------------------|---------|
| Over/Under Voltage Protection    | Yes     |
| Over/Under Frequency Protection  | Yes     |
| Overload Protection              | Yes     |
| Short-Circuit Protection         | Yes     |
| Over Temperature Protection      | Yes     |
| Over Current Protection          | Yes     |
| Leakage Current Protection       | Yes     |
| Insulation Resistance Protection | Yes     |
| Anti-islanding Protection        | Yes     |