

### SINVERT 240 MS LV

#### Description:

Power conditioning unit with three-phase output for grid parallel operation; consisting of IGBT inverter, DC/AC distribution, isolating transformer and SIMATIC S7 controller; MPP tracking for optimum utilisation of PV field power; VAR control in three-phase network (optional); integrated control panel with display of operating states and actual values; manual/automatic switch-over by integrated key-switch; isolation monitoring with selective fault allocation and safety disconnection; visualization and service software PowerProtect solar; interface for process visualization and integration in management systems via Ethernet (optional), for example for WinCC; Data logger with mini webserver (optional); cabinets for floor mounting; forced ventilation by fan; air intake through lower cabinet front and cabinet bottom; air discharge through the cabinet roof; cable entry at base from below. According standard EN 60439-1.

#### Technical data:

|                                   |                        |                                   |
|-----------------------------------|------------------------|-----------------------------------|
| Grid interface                    | 3~ 230/400 V; 50 Hz    |                                   |
| Rated output power (AC)           | 231 kVA                | (at 350 V DC, 35 °C, cos phi = 1) |
| Rated output current (AC)         | 333 A                  |                                   |
| MPP voltage range (DC)            | 350 - 750 V            |                                   |
| Maximum system voltage (DC)       | 900 V                  | (no inverter operation)           |
| Rated input power (DC)            | 240 kW                 | (at 350 V DC)                     |
| Rated input current (DC)          | 528 A                  |                                   |
| Number of DC inputs               | 9                      |                                   |
| Maximum current per DC input      | 80 A                   |                                   |
| Eta EU                            | 93,3 %                 |                                   |
| Eta max                           | 96,2 %                 |                                   |
| Power consumption at night        | 35 W                   |                                   |
| Max. current auxiliary power (AC) | 2 A (optional)         | (per machine)                     |
| Number of machines                | 3                      |                                   |
| Dimension (H x W x D)             | 1902 x 918 x 834 mm    | (per machine)                     |
| Weight                            | 830 kg                 | (per machine)                     |
| Colour                            | ergogrey (RAL 7044)    |                                   |
| Temperature range                 | 0 - 50 °C              | (up to 1000 m above sea level)    |
| Air consumption                   | 1500 m <sup>3</sup> /h | (per machine)                     |
| Climate rating                    | EN 60721-3-3 (3K3)     |                                   |
| Degree of protection              | IP 20                  |                                   |
| Noise level                       | < 66 dB (A)            | (per machine)                     |
| EMC - immunity                    | EN 61000-6-2           |                                   |
| EMC - emission                    | EN 61000-6-4           |                                   |
| Harmonics                         | EN 61000-3-4           |                                   |