

### SINVERT 100 M - 3DC

#### 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)	105 kVA	(at 450 V DC, 35 °C, cos phi = 1)
Rated output current (AC)	153 A	
MPP voltage range (DC)	450 - 750 V	
Maximum system voltage (DC)	900 V	(no inverter operation)
Rated input power (DC)	111 kW	(at 450 V DC)
Rated input current (DC)	243 A	
Number of DC inputs	3	
Maximum current per DC input	80 A	
Eta EU	94,9 %	
Eta max	96,2 %	
Power consumption at night	15 W	
Max. current auxiliary power (AC)	2 A (optional)	(per machine)
Number of machines	1	
Dimension (H x W x D)	1902 x 918 x 834 mm	(per machine)
Weight	850 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	