



SolarEdge Compact Residential Solution

Inverters: SE1000M, SE1500M, SE2000M
Power Optimizer: M2500



COMPACT RESIDENTIAL SOLUTION

Cost effective solution for residential systems of 4-8 modules

- Suitable for homes with limited roof space, social housing projects, or for meeting minimum sustainability requirements
- Inverter available in three versions: 1000VA, 1500VA and 2000VA
- Optimizer and inverter designed to work exclusively with each other
- Extremely compact, lightweight, and easy to install
- Each of the four power optimizer inputs supports one or two 60-cell modules
- IP65 rated inverter — suitable for indoor or outdoor installation
- Three communication options for maximum cost effectiveness
- Inverter and optimizer ordered with a single part number and supplied in a single box



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INVERTER SPECIFICATIONS:

	SE1000M	SE1500M	SE2000M	
OUTPUT				
Maximum AC Power Output	1000	1500	2000	VA
AC Output Voltage (nominal)		220 / 230		Vac
AC Output Voltage Range		184 - 264.5		Vac
AC Frequency (nominal)		50 ± 5		Hz
Maximum Continuous Output Current	4.5	7	9	A
INPUT				
Maximum DC Power	1350	2025	2700	W
Transformer-less, Ungrounded		Yes		
Maximum Input Voltage		500		Vdc
Operating Voltage		75 - 480		Vdc
Maximum Input Current		11		Adc
Maximum Inverter Efficiency		97.3		%
European Weighted Efficiency	96.6	96.7	96.8	%
ADDITIONAL FEATURES				
Supported Communication Interfaces	Basic: RS485 Interface for Modbus Meter for export limitation Medium: RS485 Interface, communication to SolarEdge monitoring platform via integrated Wi-Fi / Ethernet Full: RS485 Interface, communication to SolarEdge monitoring platform via integrated Wi-Fi / Ethernet / ZigBee or optional Cellular GSM			
Smart Energy Management	Basic, Medium: Export Limitation Full: Export Limitation, Device Control			
INSTALLATION SPECIFICATIONS				
Dimensions (H x W x D)	340 x 239 x 127			mm
Noise	< 25			dBA
Weight	6			kg
Cooling	Natural Convection			
Operating Temperature Range	-40 to +60 ⁽¹⁾			°C
Protection Rating	IP65 - Outdoor and Indoor			

⁽¹⁾ De-rating from 50°C

POWER OPTIMIZER SPECIFICATIONS:

INPUT	M2500 (for 4-8 60-cell modules)			
Number of Inputs	4			
Number of MPP Trackers	4 (1 per Input)			
Rated DC Power per Input ⁽¹⁾	630			W
Absolute Maximum Input Voltage per Input (Voc at lowest temperature)	96			Vdc
MPPT per Input Operating Range	12.5 - 80			Vdc
Maximum Continuous Input Current per Input (Isc)	13.75			Adc
Maximum Efficiency	99.5			%
Weighted Efficiency	98.8			%
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)				
Maximum Output Current	11			Adc
Maximum Output Voltage	340			Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR SOLAREEDGE INVERTER OFF)				
Safety Output Voltage per Power Optimizer	4			Vdc
INSTALLATION SPECIFICATIONS				
Maximum Allowed System Voltage	600			Vdc
Dimensions (W x L x H)	145 x 211 x 56			mm
Weight (including cables)	1.5			kg
Input Connector	4 x MC4 Pairs			
Output Connector	MC4 Pairs			
Operating Temperature Range	-40 to +85			°C
Protection Rating	IP68			

⁽¹⁾ Rated STC power of the module. Module of up to +5% power tolerance allowed.

PV SYSTEM DESIGN	SE1000M	SE1500M	SE2000M	
Number of M2500 per Inverter		1		
Maximum DC System Power	1350	2025	2500	W _{DC}

