



## Single Phase Inverter, Power Optimizer

with compact technology

Inverters: SE1000M, SE1500M, SE2000M

Power Optimizer: M2640



SINGLE PHASE INVERTERS, POWER OPTIMIZER

### 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
- Optimizer and inverter designed to work exclusively with each other and ordered with a single part number and supplied in a single box
- 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
- Optional communication option for maximum cost effectiveness



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## INVERTER SPECIFICATIONS:

	SE1000M	SE1500M	SE2000M	
<b>OUTPUT</b>				
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	5	7	9.5	A
<b>INPUT</b>				
Maximum DC Power	1350	2025	2640	W
Transformer-less, Ungrounded		Yes		
Maximum Input Voltage		500		Vdc
Operating Voltage		75 - 480		Vdc
Maximum Input Current		11		Adc
Maximum Inverter Efficiency		97		%
European Weighted Efficiency	95.7	96.5	97	%
<b>ADDITIONAL FEATURES</b>				
Supported Communication Interfaces	Basic: No Communication Interfaces Extended: RS485 Interface, communication to SolarEdge monitoring platform via integrated Wi-Fi / Ethernet / ZigBee or optional Cellular GSM			
Smart Energy Management	Basic: No Smart Energy Management Extended: Export Limitation, Home Energy Management			
<b>INSTALLATION SPECIFICATIONS</b>				
Dimensions (H x W x D)		340 x 239 x 127		mm
Noise		< 25		dB(A)
Weight		6		kg
Cooling		Natural Convection		
Operating Temperature Range		-40 to +60 <sup>(1)</sup>		°C
Protection Rating		IP65 - Outdoor and Indoor		

<sup>(1)</sup> For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf>

## POWER OPTIMIZER SPECIFICATIONS:

<b>INPUT</b>	<b>M2640 (for 4-8 60-cell modules)</b>			
Number of Inputs	4			
Number of MPP Trackers	4 (1 per Input)			
Rated DC Power per Input <sup>(1)</sup>	660			W
Absolute Maximum Input Voltage per Input (Voc at lowest temperature)	96			Vdc
MPPT per Input Operating Range	12.5 - 80			Vdc
Maximum Short Circuit Current per Input (Isc)	13.1			Adc
Maximum Efficiency	99.5			%
Weighted Efficiency	98.8			%
<b>OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)</b>				
Maximum Output Current	10.5			Adc
Maximum Output Voltage	340			Vdc
<b>OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR SOLAREEDGE INVERTER OFF)</b>				
Safety Output Voltage per Power Optimizer	10 ± 1			Vdc
<b>INSTALLATION SPECIFICATIONS</b>				
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			

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

<b>PV SYSTEM DESIGN</b>	SE1000M	SE1500M	SE2000M	
Number of M2640 per Inverter		1		
Maximum DC System Power	1350	2025	2640	W <sub>DC</sub>

