



## 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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Inverters: SE1000M, SE1500M, SE2000M; Power Optimizer: M2640

## 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 built-in Ethernet or additional connectivity options purchased separately such as Wi-Fi, ZigBee®, and GSM plug-ins			
Smart Energy Management	Basic: No Smart Energy Management Extended: Export Limitation, Home Energy Management			
<b>STANDARD COMPLIANCE</b>				
Safety	IEC-62103 (EN50178), IEC-62109			Vdc
Grid Connection Standards	VDE-AR-N-4105, VDE 0126-1-1, AS-4777, RD-1663, DK5940			Vdc
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC part 15 class B			Vdc
RoHS	Yes			Vdc
<b>INSTALLATION SPECIFICATIONS</b>				
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 <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:

	M2640 (for 4-8 60-cell modules)	
<b>INPUT</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.

PV SYSTEM DESIGN	SE1000M	SE1500M	SE2000M	
Number of M2640 per Inverter	1			
Maximum DC System Power	1350	2025	2640	Woc

