

## Product Change Notification

# SolarEdge - Next Generation Power Optimizers

SolarEdge Technologies is introducing in InterSolar its next generation of Power Optimizers –safer, more efficient, smaller and lighter.

The following document describes the improvements of the new optimizers as well as procedures and dates relating to the change.

### Enhanced Safety

The new power optimizers provide enhanced SafeDC™ features. The optimizers will have electric arc detection and termination in addition to the existing automatic module shutdown in case of inverter or grid shutdown.

### More efficient

The new devices have an improved maximum power optimizer efficiency of 99.5%, (98.8% EU weighted efficiency). This extraordinary efficiency is possible with the help of two technological advances. A new highly efficient ASIC chipset allows a reduction of 32% in the part count which permits more efficient energy conversion. A new MPPT algorithm that dynamically tracks the global maximum operating point for both modules and inverter, enables This ensures peak system performance in both shaded and unshaded conditions.

### Smaller and lighter

The new power optimizer is 40% smaller in volume.

Similar to all SolarEdge optimizers, the new units include module-level monitoring. SolarEdge's unique fixed string architecture allows constraint free design with parallel uneven length strings and multi-faceted installations



### SolarEdge Technologies

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## Change Description

1. SolarEdge PB250-AOB and PB350-AOB power optimizers are being replaced.
2. SolarEdge is introducing three new power optimizers:
  - OP250-LV - 250W power optimizer for panels of Voc<55V
  - OP300-MV - 300W power optimizer for panels of Voc<75V
  - OP400-MV - 400W power optimizer for panels of Voc<75V

## New Products Specification - Highlights

	OP250-LV	OP300-MV	OP400-MV
Rated Input DC power	250W	300W	400W
Absolute Maximum Input Voltage	55V	75V	75V
MPPT Operating Range	5-55V	5-75V	5-75V
Maximum Input Current	10A		
Maximum Output Current	15A		
Maximum Efficiency	99.5%		
European Weighted Efficiency	98.8%		
Dimensions (WxLxH)	120x130x37mm		
Arc detection and termination	Yes		

For full specifications see attached datasheet

## Backward compatibility

The new optimizers are functionally backward compatible to the older parts. There is no restriction in using new optimizers in the same installation with older parts. Both types can be connected together to the same inverter or string.<sup>1</sup>

Each replaced part has a new part-number that should be used in case RMA will be needed. The new unit type specifications surpass the old unit type in every specification.

OP300-MV will be used for replacing PB250-AOB  
 OP400-MV will be used for replacing PB350-AOB

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<sup>1</sup> When mixing optimizer generations in the same inverter the arc detection function will not be functional  
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## **Date of Change**

For all geographies but North America and Australia this change will be in effect starting **Aug 1<sup>st</sup> 2011**

For North America this change will be in effect starting **Sept 1<sup>st</sup> 2011**

For Australia this change will be in effect starting **Oct 1<sup>st</sup> 2011**

PB250-AOB orders that have not been supplied by the change date will be fulfilled with the OP300-MV power optimizer or by the OP250-LV for lower voltage modules.

PB350-AOB orders that have not been supplied by the change date will be fulfilled with the OP400-MV power optimizer.

## **Pricing**

Price list will be published 8<sup>th</sup> of June 2011

Please contact [support@solaredge.com](mailto:support@solaredge.com) with any questions.

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