

SolarEdge Power Optimizers Inter-compatibility North America

Version History

- Version 2.1 (May 2018) - added check mark for P405-P505
- Version 2 (February 2018) - marked P800p and P800s as inter-compatible and added P505
- Version 1 (April 2014) - initial version

This technical note specifies inter-compatibility between various models of the P-Series SolarEdge power optimizers, as well as the inter-compatibility of the P-Series power optimizers with previous series of power optimizers (PBxxx and OPxxx). The term "inter-compatibility" refers exclusively to the installation of power optimizers in the same PV string.

When replacing a power optimizer, the replacement optimizer does not need to be identical to the replaced optimizer, but it must be compatible with the other optimizers in the string.



NOTE

Installing different series and models of power optimizers in the same installation is allowed as long as they are installed in separate PV strings. However, power optimizers that are inter-compatible may be installed in the same PV string.

The following compatibility table details the series and models that can be installed in the same PV string, during installation or in case an optimizer is being replaced.

If there is no check mark in a cell, the relevant power optimizers cannot be in the same string.

| | | P300 | P320 | P370 | P400 | P405 | P505 | P600 | P700 | P730 | P800p | P800s |
|-----------------|-----------|------|------|------|------|------|------|------|------|------|-------|-------|
| P Series | P300 | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| | P320 | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| | P370 | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| | P400 | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| | P405 | | | | | ✓ | ✓ | | | | | |
| | P505 | | | | | ✓ | ✓ | | | | | |
| | P600 | | | | | | | ✓ | ✓ | ✓ | | |
| | P700 | | | | | | | ✓ | ✓ | ✓ | | |
| | P730 | | | | | | | ✓ | ✓ | ✓ | | |
| | P800p** | | | | | | | | | | ✓ | ✓ |
| | P800s | | | | | | | | | | ✓ | ✓ |
| OP Series | OP250-LV | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| | OP300-MV | ✓ | ✓* | ✓* | ✓ | | | | | | | |
| | OP400-MV | ✓ | ✓* | ✓* | ✓ | ✓ | | | | | | |
| | OP400-EV | | | ✓ | ✓ | | | | | | | |
| | OP600-96V | | | | | | | ✓ | ✓ | ✓ | | |
| PB Series | PB250-AOB | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| | PB350-AOB | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| | PB350-TFI | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| Module Embedded | PB250-CSI | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| | OPJ300-LV | ✓ | ✓ | ✓ | ✓ | | | | | | | |

* In case of replacement, this model can be used only if the PV module max Voc (at minimum ambient temperature) does not exceed the replacement optimizer's maximum input voltage. Refer to the power optimizer datasheet for details.

** For P800p, the same replacement options apply for both the single and dual input versions.