

Technical Note

# Compatibility of Three-Phase Inverters and Optimizers in North America

Version 1.1

April 2025

MAN-01-01258-1.1

## Revision History

Version	Date	Description
1.1	April 2025	General updates
1.0	August 2024	Initial release

## Overview

SolarEdge is releasing a new series of high-power DC optimizers that deliver higher output currents than existing models with the introduction of a corresponding series of inverters to support this increased current, designed without fuses on the DC input. These new optimizers and inverters are compatible only with each other and are not interchangeable with devices from previous generations.

The following table displays new optimizers with a maximum output current level of 24A, compared to previous generations of optimizers with a maximum output of 18A:

### Power optimizers maximum DC current

Power Optimizer model	Maximum DC output current
P860, P960, P1100/1	18A
S1200/1	18A
C651U	24A

## System compatibility

### Superseded part numbers

Inverters				Power Optimizers	
Type	Input type	Inverter PN	Model	P860/P960 P1100/1 S1200/1	C651U
Three Phase Inverter	Multi DC input (fuse-less)	SExxK-USxxlxxZ4	SE10KUS SE17.3KUS SE30KUS SE40KUS	COMPATIBLE	NOT COMPATIBLE
Three Phase Inverter with Synergy Manager	Multi DC input (fuse-less)	SExxK-USxxlxxZ4	SE50KUS SE80KUS SE100KUS SE110KUS SE120KUS	COMPATIBLE	NOT COMPATIBLE
	1 DC input (fuse-less)	SExxK-USxxlxxW4			

### Three Phase Inverter with Synergy Manager

Synergy Manager	Synergy Unit
SExxK-USxxlxxx4	SESUK-USR0INNN4

## New inverter part numbers

Inverters				Power Optimizers	
Type	Input type	Inverter PN	Model	P860/P960 P1100/1 S1200/1	C651U
Three Phase Inverter	Multi DC input (fuse-less)	xSE-SIN-USR0IBNS8	SE10KUS SE17.3KUS SE30KUS SE40KUS	NOT COMPATIBLE	COMPATIBLE
Three Phase Inverter with Synergy Manager	Multi DC input (fuse-less)	SE-DBL-US00IBNS4  SE-TRI-US00IBNS4	SE50KUS SE80KUS SE100KUS SE110KUS SE120KUS		
	1 DC input (fuse-less)	SE-TRI-US00IBNW4			

## Synergy Manager and Synergy Unit compatibility for new PNs

Synergy Manager	Synergy Unit
SE-TRI-US00IBNS4  SE-TRI-US001BNW4  SE-DBL-US00IBNS4	xSESUK-USR0INNN6/8

## Summary

C651U optimizers are exclusively compatible with fuse-less inverters that have one of the following part number structures:

- xSE-SIN-USxxlxxSx
- SE-DBL-USxxlxxSx
- SE-TRI-USxxlxxSx
- SE-TRI-USxxlxxWx



### NOTE

The new Synergy Managers and Synergy Units are NOT compatible with the previous Synergy Managers and Synergy Units.