

# SUNCELL SOLAHART370V1 MODULE INSTALLATION INSTRUCTIONS: ADDENDUM

## SUMMARY

This addendum is a supplement to “Installation Instructions for Single Phase Solahart PV Systems SunCell Modules”, and “Installation Instructions for Three Phase Solahart PV Systems SunCell Modules”. This document describes new system design parameters regarding the Solahart370V1 modules. Refer to “Installation Instructions for Single Phase Solahart PV Systems SunCell Modules”, and “Installation Instructions for Three Phase Solahart PV Systems SunCell Modules” for further installation procedures.

## SYSTEM DESIGN

### Single Phase Inverters

Inverter Brand	Inverter Model	Max Number of Modules per String*	Min Number of Modules	Total Max Number of Modules	Maximum Power Rating (W)
FIMER	UNO-DM-2.0-TLPLUSB	7	4	7	2590
FIMER	UNO-DM-3.3-TLPLUSB	11	4	11	4070
FIMER	UNO-DM-5.0-TLPLUSB	13	4	18	6660
FIMER	UNO-DM-6.0-TLPLUSB	13	4	21	7770
GoodWe	GW1500-XS	5	2	5	1850
GoodWe	GW2500-XS	9	2	9	3330
GoodWe	GW3000D-NS	10	4	10	3700
GoodWe	GW5000D-NS	13	4	18	6660
GoodWe	GW10K-MS	13	3	36	13320
SolarEdge	SE5000H-xxxxxxxx	15	8	18	6660
SolarEdge	SE6000H-xxxxxxxx	15	8	21	7770
SolarEdge	SE8250H-xxxxxxxx	16	8	29	10730
SolarEdge	SE10000H-xxxxxxxx	16	8	36	13320

\* -17°C used to calculate maximum V. If minimum temperatures lower than -17°C are experienced at the installation site, maximum number of modules must be re-evaluated.

### Three Phase String Inverters

Inverter Brand	Inverter Model	Max Number of Modules per String*		Min Number of Modules	Total Max Number of Modules		Maximum Power Rating (W)	
		<600V	<1000V		<600V	<1000V	<600V	<1000V
GoodWe	GW5K-DT	13	18	7	18	18	6400	6400
GoodWe	GW10KAU-DT	13	22	7	35	36	13200	-
GoodWe	GW15KAU-DT	13	22	7	39	54	13200	19200
GoodWe	GW5KL-ET	13	-	7	18	-	6400	-
GoodWe	GW10KL-ET	13	-	7	36	-	13200	-
GoodWe	GW29.9K-MT	13	22	7	78	107	28860	39590
GoodWe	GW50KN-MT	13	22	7	130	180	48100	66600
FIMER	PVS-100	-	22	13	-	360	-	133200

\* -17°C used to calculate maximum V for <600V and -2°C used to calculate maximum V for <1000V. If minimum temperatures lower than -17°C or -2°C for <600V and <1000V sites respectively are experienced at the installation site, maximum number of modules must be re-evaluated.

**Three phase SolarEdge inverters with P4xx Optimiser\*:**

Inverter Brand	Inverter Model	Max Number of Modules per String	Min Number of Modules	Total Max Number of Modules	Maximum Power Rating (W)
SolarEdge	SE5K-xxxxxxx	15	9	18	6400
SolarEdge	SE10K-xxxxxxx	15	9	36	10000
SolarEdge	SE15K-xxxxxxx	30	16	54	18400
SolarEdge	SE30K-xxxxxxx	30	16	108	40000
SolarEdge	SE82.8K-xxxxxxx	30	16	298	110400

**Three phase SolarEdge inverters with P8xx Optimisers\*:**

Inverter Brand	Inverter Model	Max Number of Modules per String	Min Number of Modules	Total Max Number of Modules	Maximum Power Rating (W)
SolarEdge	SE15K-xxxxxxx	36	27	54	19980
SolarEdge	SE30K-xxxxxxx	36	27	108	39960
SolarEdge	SE82.8K-xxxxxxx	36	27	298	110260

\*For all SolarEdge Three Phase designs, confirm the string design on the SolarEdge Designer Tool available here: <https://www.solaredge.com/aus/products/installer-tools/designer#/>.

**VOLTAGE TABLES FOR GOODWE AND FIMER SYSTEMS, SOLAHART370V1 (VOC = 40.75V)**

No of Modules per String	V <sub>oc</sub> * of the String (V)	No of Modules per String	V <sub>oc</sub> * of the String (V)
3	122.25	12	489
4	163	13	529.75
5	203.75	14	570.5
6	244.5	15	611.25
7	285.25	16	652
8	326	17	692.75
9	366.75	18	733.5
10	407.5	19	774.25
11	448.25		

**CLAMPING ZONE**

For clamping updated clamping zones for Solahart370V1 please refer to Technical Bulletin PV086\_Solahart SunCell Panel Clamp Zones