



# Datasheet Yingli 230 & 235

## A cost effective package for domestic installations

Quick to specify, simple to install. Solarcentury has designed the range of pre-engineered Sunstation systems, to provide everything a solar installer or developer needs in one complete package.

Each pre-designed system comes complete with all of the on-roof and electrical components.

Sunstation uses the Intersole mounting system for pitched roofs and is compatible with a wide range of roof tiles and slates.

By integrating into the roof line, Sunstation systems can help avoid the need for additional roof support, saving time and money.



### System sizes and components

Each pre-engineered Sunstation System includes the PV Modules, a complete InterSole system, the Inverter and a full Electrical Pack.

The Yingli PV modules come in two power options; 230Wp and 235Wp. The physical dimensions and inverter sizing are the same for both modules.

It is easy to order your Sunstation system, simply select the Order Code for the System Size you need and then pick a flashing colour to match the roof tiles.

For systems based on SMA or Fronius inverters you also have the option of selecting a Display Pack. This includes a wireless display and wireless card for the inverter.











### Step 1: select one system package

Number of modules	230Wp Module options			235Wp Module options			Step 2: Select one matching flashing pack	
	System Size (kWp)	Order code	<input type="checkbox"/>	System Size (kWp)	Order code	<input type="checkbox"/>	Red Order code	Black order code
3	0.69	13219-01	<input type="checkbox"/>	0.71	13229-01	<input type="checkbox"/>	11407-01	11382-01
6	1.38	13220-01	<input type="checkbox"/>	1.41	13230-01	<input type="checkbox"/>	11407-01	11382-01
8	1.84	13221-01	<input type="checkbox"/>	1.88	13231-01	<input type="checkbox"/>	11407-01	11382-01
9	2.07	13222-01	<input type="checkbox"/>	2.12	13232-01	<input type="checkbox"/>	11407-01	11382-01
10	2.30	13223-01	<input type="checkbox"/>	2.35	13233-01	<input type="checkbox"/>	11200-01	11397-01
12	2.76	13224-01	<input type="checkbox"/>	2.82	13234-01	<input type="checkbox"/>	11407-01	11382-01
14	3.22	13225-01	<input type="checkbox"/>	3.29	13235-01	<input type="checkbox"/>	11200-01	11397-01
16	3.68	13226-01	<input type="checkbox"/>	3.76	13236-01	<input type="checkbox"/>	11200-01	11397-01
18	4.14	13227-01	<input type="checkbox"/>	4.23	13237-01	<input type="checkbox"/>	11407-01	11382-01
20	4.60	13228-01	<input type="checkbox"/>	4.70	13238-01	<input type="checkbox"/>	11200-01	11397-01

### Optional Display Packs

SMA	12682-01	<input type="checkbox"/>
Fronius	12681-01	<input type="checkbox"/>

# Yingli 230 & 235 with InterSole

System Size Options (kWp) <sup>1</sup>	0.69	1.38	1.84	2.07	2.30	2.76	3.22	3.68	4.14	4.60	230 Wp option	235 Wp option
	<b>0.71</b>	<b>1.41</b>	<b>1.88</b>	<b>2.12</b>	<b>2.35</b>	<b>2.82</b>	<b>3.29</b>	<b>3.76</b>	<b>4.23</b>	<b>4.70</b>		
Module power (Wp)	230/235	230/235	230/235	230/235	230/235	230/235	230/235	230/235	230/235	230/235	230/235	230/235
Number of Modules	3	6	8	9	10	12	14	16	18	20		
Number of strings	1	1	1	1	1	1	1	2	2	2		
Electricity Units per year (kWh/yr) <sup>2</sup>	579/592	1159/1184	1545/1579	1738/1776	1932/1974	2318/2368	2704/2763	3091/3158	3477/3553	3864/3948		
CO <sub>2</sub> Offset per year (kg) <sup>3</sup>	328/336	658/672	877/896	987/1008	1097/1121	1316/1345	1535/1569	1755/1793	1974/2018	2194/2242		
Module Orientation <sup>4</sup>	Portrait	Portrait	Portrait	Landscape	Portrait	Portrait	Portrait	Landscape	Landscape	Landscape		
												
Layout (Rows x Columns)	1x3	2x3	2x4	3x3	2x5	3x4	2x7	4x4	6x3	5x4		
Length (m)	1.7	3.3	3.3	3.0	3.3	5.0	3.3	4.0	6.0	5.0		
Width (m)	3.0	3.0	4.0	5.0	5.0	4.0	7.1	6.7	5.0	6.7		
Area (m <sup>2</sup> )	5.0	10.0	13.3	15.0	16.7	20.1	23.4	26.8	30.1	33.5		

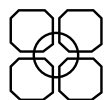
## On-roof system components

Intersole plate with fixings	4	8	12	16	16	18	24	25	28	30
Intersole anchor with fixings	8	16	20	46	24	30	32	73	82	86
Intersole rail connector	2	4	4	6	4	6	8	8	12	8
Intersole gutter (1m)	4	8	8	8	8	12	8	10	14	12
Intersole foam strip (4m)	2	3	3	3	3	4	4	4	5	5
Self tapping screws w/washers	13	26	34	42	42	51	59	63	74	79
Intersole bracket, standard	8	16	20	30	24	30	32	48	54	56
Intersole mounting profile (3m)	4	8	6	12	8	9	10	12	18	16
Intersole module end clamp	5	9	9	13	9	13	9	17	12	17
Intersole module mid clamp	5	9	13	13	17	19	25	25	31	33
Ubiflex 400mm flashing (m)	6m	6m	6m	6m	12m	6m	12m	12m	6m	12m
DC field cable (4mm, 10m)	2	2	2	2	2	2	2	4	4	4

## Electrical system pack

Inverter	1 x Mastervolt Soladin 600	1 x SMA SB1200	1 x Fronius IG20	1 x Fronius IG20	1 x Fronius IG20	1 x Fronius IG30	1 x SMA SB3000	1 x Fronius IG40	1 x Fronius IG40	1 x Fronius IG40
Y connectors (pair)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	1	1
Coupler MC4 to MC3 (pair)	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DC isolator with MC3 flying leads (16A)	1	1	1	1	1	1	1	1	1	1
AC isolator (20A)	1	1	1	1	1	1	1	1	1	1
Switched fuse spur (5A)	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total generation meter with extended cover	1	1	1	1	1	1	1	1	1	1
Photovoltaic warning sticker set	1	1	1	1	1	1	1	1	1	1
On roof installation guide	1	1	1	1	1	1	1	1	1	1
Electrical schematic	1	1	1	1	1	1	1	1	1	1

Please refer to the Module, Inverter and InterSole datasheets for full specifications, installation instructions and structural considerations



solarcentury

91-94 Lower Marsh  
Waterloo  
London SE1 7AB  
T+44 (0)20 7803 0100  
F+44 (0)20 7803 0101  
www.solarcentury.com

- (1) Measured under Standard Test Conditions of 1000W/m<sup>2</sup> irradiance, AM 1.5 spectrum, 25°C cell temperature.  
 (2) For a south facing roof in the UK, generating 840 units (kilowatt hours - kWh) per kWp. Actual performance may vary, see [www.solarcentury.co.uk/performance](http://www.solarcentury.co.uk/performance)  
 (3) Using the SAP calculation method for grid displaced electricity - 0.568kg per kilowatt hour  
 (4) The components provided in each system will support the layouts as defined. Dimensions are approximate and refer to module layout, excluding tile borders.  
 (5) Systems include Modules, DC Cables into Roof Space, Inverter, DC & AC Isolators, Total Generation Meter  
 (6) Display Packs include Personal Wireless Displays and Wireless Cards for the Inverter  
 (7) Solarcentury reserves the right to change specifications when necessary without prior notice.