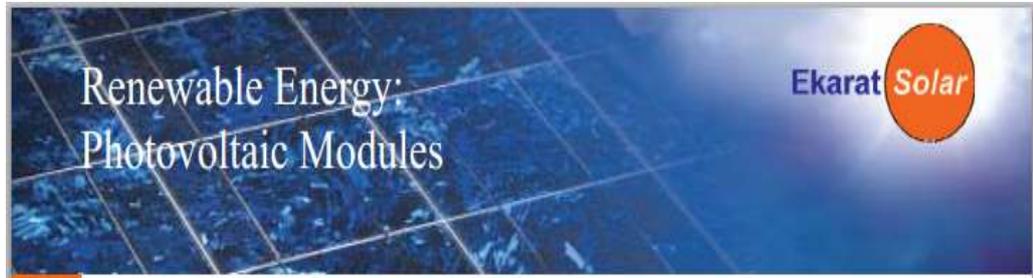


**ภาคผนวก ข.**

รายละเอียดบ้านประหยัดพลังงาน

รายละเอียดคุณลักษณะของแผงเซลล์แสงอาทิตย์ชนิด Mono Crystalline



### Electrical Characteristics

STC	STP210-18/Ud
Optimum Operating Voltage (Vmp)	26.4 V
Optimum Operating Current (Imp)	7.95 A
Open - Circuit Voltage (Voc)	33.6 V
Short - Circuit Current (Isc)	8.33 A
Maximum Power at STC (Pmax)	210 Wp
Module Efficiency	14.3%
Operating Temperature	-40 °C to +85 °C
Maximum System Voltage	1000 V DC
Maximum Series Fuse Rating	20 A
Power Tolerance	0/+5w

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, AM=1.5

### Mechanical Characteristics

<b>Dimension</b>	1488 x 975 x 38 mm.
<b>Weight</b>	17 kg.
<b>Dimension tolerance</b>	± 3 mm.
<b>Junction Box</b>	Degree of protection: IP65 and compatibility with 2.5 - 4.0 mm cross section cable size.
<b>Diode</b>	Silicon or Schottky By - pass diode for every 18 cells connection.
<b>Frame</b>	Anodized Aluminum.
<b>Construction structure</b>	Front: High light transmission tempered glass with 3.20 mm thickness. Back: Weather proof back sheet material. Laminated Material: EVA.

**Qualification and testing**

ISO 9001 for qualify management system.

IEC 61215 : Crystalline silicon terrestrial PV modules— Design qualification and type approval.

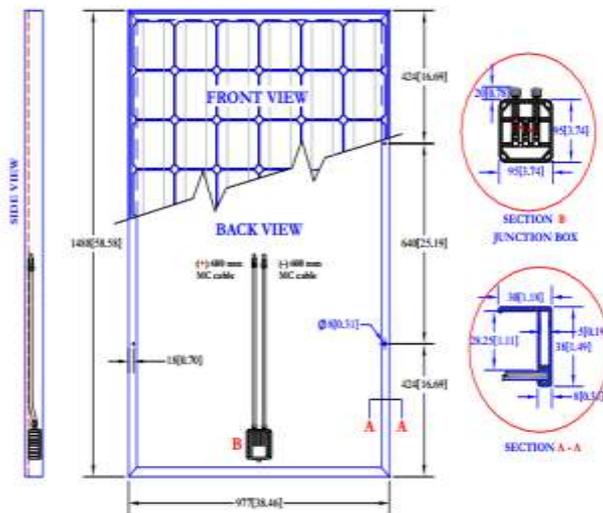
IEC 61730 : PV module safety qualification. To ensure a safety for users and installing operator of our products.

TIS 1843 : Thailand Industrial Standard equivalents to IEC 61215.

CE mark: European Conformity



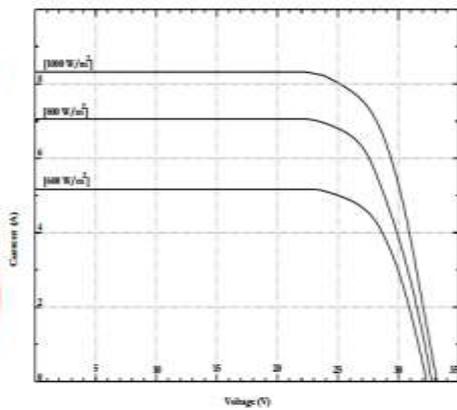
**Module drawing diagram**



**IV - curves**

**Irradiance**

**1,000 W/m<sup>2</sup>, 800 W/m<sup>2</sup>, and 600 W/m<sup>2</sup>**



Model: 200W

These data represent the performance of typical modules as measured at their out put terminals, and do not include the effect of such additional equipment as diodes or cables. The data are based on measurements made in accordance with ASTM E1036-85 corrected to SRC (Standard Reporting Conditions, also known as STC or Standard Test Conditions), which are:

- Illumination of 1kW/m<sup>2</sup> (1sun) at spectral distribution of AM1.5 (ASTME892-87 global spectral irradiance);
- Cell temperature of 25°C.

## รายละเอียดคุณลักษณะของอินเวอร์เตอร์



## Main

Range of product	XW
Device short name	XW4548-230-50
Product or component type	Hybrid inverter / charger
Network number of phases	Single phase
Type of signal	True sine wave
Continuous power	4500 W - 230 V AC (tolerance: +/- 3 %)

## Complementary

Output current	19.6 A
Feature available	40 A, duration : 20 s
Network frequency	50 Hz +/- 0.1 Hz (output)
Cos phi	0.98
Harmonic distortion	< 5 %
Input voltage	230 V AC 50.4 V DC
Input voltage limits	156...280 V AC - bypass/charge mode 44...64 V DC
Input current	96 A DC at rated power
Input frequency	44...70 Hz - bypass/charge mode (allowable) 55...65 Hz - bypass/charge mode (default) 59.4...60.4 Hz +/- 0.05 Hz - sell mode
Charging current	85 A
Efficiency	95.6 % peak
Power consumption in W	< 7 W - search mode
Communication network type	Xanbus
Device mounting	Wall mounted
Provided equipment	Battery temperature sensor included for temperature compensation
Height	580 mm
Width	410 mm
Depth	230 mm
Product weight	53.5 kg

## Environment

IP degree of protection	IP20
Ambient air temperature for operation	-25...70 °C
Electromagnetic compatibility	Limitation of voltage changes, voltage fluctuations and flicker in low-voltage conforming to EN 61000-3-3 Limits for harmonic current emissions conforming to EN 61000-3-2 Emission standard for residential, commercial and light-industrial environments conforming to EN 61000-6-3 Immunity for residential, commercial and light-industrial environments conforming to EN 61000-6-1
Standards	EN 50178
Product certifications	CE

## ลักษณะ โครงสร้างของบ้านประหยัดพลังงาน





