

# Off-grid Solar Power System

## 85W Kits(ALL IN ONE)



### ■ PV Module

Live time is more than 25 years.

Poly/Mono Crystalline Si Eff. 13.5~16%

Voc=21.96Vdc ; Isc=5.06A

Vmp=18.22Vdc; Imp= 4.67A

### ■ Supporting

1. Deigned for Balcony, ground and roof Mounted
2. Best Tilt angle for Japan

### ■ MPPT Charger

1. MCU Fully Digital-Controlled MPPT Solar Charger
2. High Efficiency Maximum Power Point Tracking Technique
3. Buck Boost Conversion / Large DC Input Voltage Range
4. ABM- 3-Stages Battery Charging/Discharging Control
5. Smart Load Management Function
6. LCD Display- System Data & Status

### ■ DC/AC Control Box

1. Surge Protection
2. Reverse Current Protection
3. 300W/24V DC/110 or 230V AC
4. Outdoor Power Socket with Timer

### ■ Battery

1. 12Vdc/28AH Deep Cycle Gel type
2. Life Time>1200cycles (50% DoD)
3. Fast Charging & Discharging



▲ ALL IN ONE Off-grid PV system



▲ DC/AC Control Box

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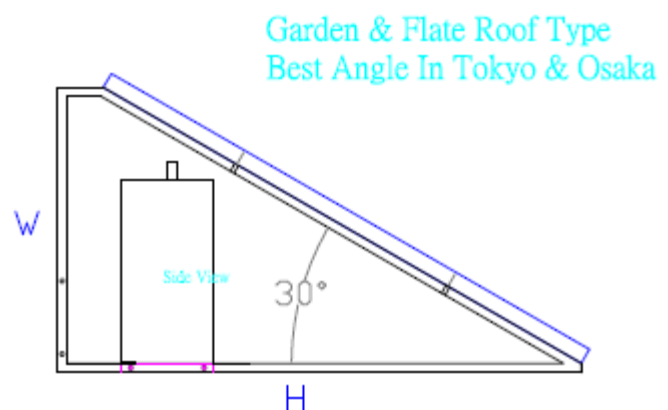
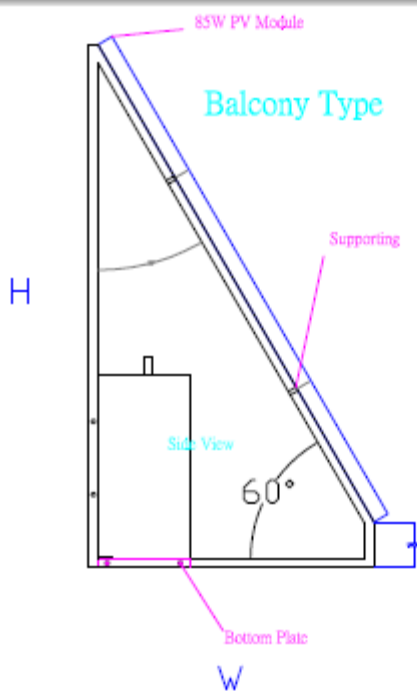
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# Specification

| Model              | PV85                                   | PV135                                | PV200                                |
|--------------------|----------------------------------------|--------------------------------------|--------------------------------------|
| PV Module          | 85W<br>(1206*552*35mm)                 | 135W<br>(1471*66*50mm)               | 200W<br>(1483*995*50mm)              |
| MPPT Charger       | Input 6-50V/4.16A<br>Output 24VDC/100W | Input 6-50V/15A<br>Output 12VDC/200W | Input 6-50V/15A<br>Output 24VDC/360W |
| Battery            | 12V/28AH *2 /Gel                       | 12V/70AH /Gel                        | 12V/60AH*2 /Gel                      |
| Inverter           | 150W/24VDC/230VAC                      | 150W/12VDC/230VAC                    | 300W/24VDC/230VAC                    |
| Box<br>H*W*D<br>mm | 460*442*200 for AC kits                | 560*442*200 for AC kits              | 610*462*200 for AC kits              |
| Weight             | 45KG                                   | 52KG                                 | 80KG                                 |

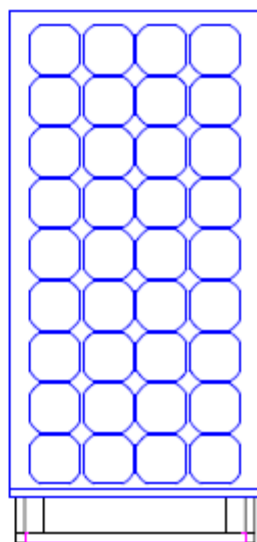
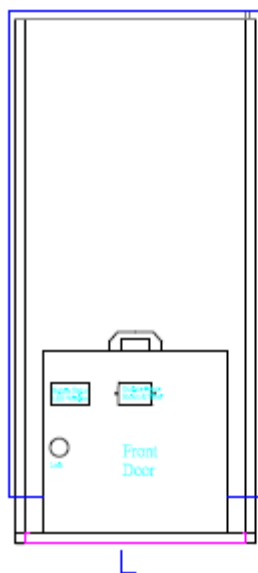


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Back View

Front View



|      | H(mm) | W(mm) | L(mm) |
|------|-------|-------|-------|
| 85W  | 1162  | 653   | 552   |
| 135W | 1399  | 755.5 | 666   |
| 200W | 1409  | 761.5 | 995   |



# Specification

| Model        | PV400                                | PV800                                         | PV1200                                        |
|--------------|--------------------------------------|-----------------------------------------------|-----------------------------------------------|
| PV Module    | 200W*2 pcs<br>(1483*995*50mm)        | 200W*4 pcs<br>(1483*995*50mm)                 | 200W*6 pcs<br>(1483*995*50mm)                 |
| MPPT Charger | Input 6-66V/25A<br>Output 24VDC/600W | Input 6-66V/25A<br>Output 24VDC/600W<br>*2pcs | Input 6-66V/25A<br>Output 24VDC/600W<br>*3pcs |
| Battery      | 12V/60AH*4 /Gel                      | 12V/80AH*4 /Gel                               | 12V/80AH*8 /Gel                               |
| Inverter     | 600W//24VDC/230VAC                   | 800W//24VDC/230VAC                            | 1600W//24VDC/230VAC                           |
| Box H*W*D mm | 1150*600*400                         | 1150*600*400                                  | 1600*1000*465                                 |
| Weight       | 160KG                                | 280KG                                         | 450KG                                         |



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