

## Introduction

Ipandee rack type MPPT solar energy system use 19 inch/2U structure, which can be easily embedded into the cabinet, easy to install, automatically identify a variety of different voltage levels, with perfect protection function and strong stability;

Application fields: communication base station, photovoltaic emergency/backup power supply, photovoltaic energy storage system, transportation, petroleum and military power protection, Barrier system and other fields;

## Image





## Characteristics

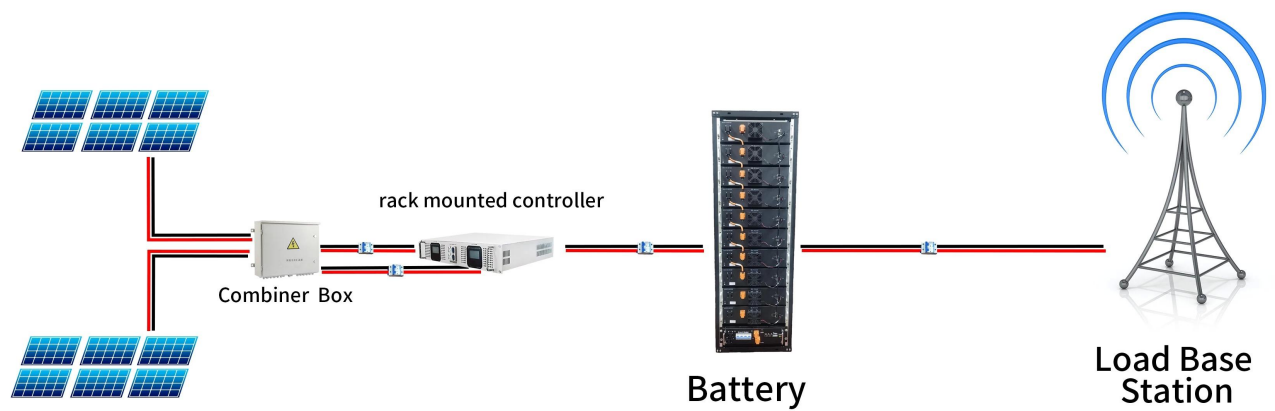
- \* MPPT efficiency >99.5%, and the conversion efficiency of the whole machine is as high as 98%;
- \* charging mode: four stage charging (constant current, constant voltage, float-ing charge and boost);
- \* load mode has normally open/normally closed mode;
- \* automatic identification of battery system voltage;
- \* customers can choose(set) battery type and parameters to support lithium battery charging;
- \* with current limiting charging function, when the power of the battery board is too large, the charging power will be maintained automatically, and the charging current will not exceed the rated value;
- \* High Definition LCD display, which can view the equipment operation data and working status;

- \* RS485 communication, standard Modbus protocol, unified integrated management and secondary development;
- \* Support PC upper computer software monitoring and WiFi/Bluetooth module expansion to realize app cloud monitoring;
- \* products have passed CE, ROHS, FCC and other certification;

## Parameter

| MPPT controller         | E60                                  |  | E120  |
|-------------------------|--------------------------------------|--|-------|
| system                  | average efficiency                   | ≥98%   |       |
|                         | standby power consumption            | 0.5W-1.2AW   |       |
|                         | cooling mode                         | Forced air cooling   |       |
|                         | battery system                       | 12V/24V/36V/48V  |       |
| Input                   | maximum input voltage(Voc.max)       | 150VDC   |       |
|                         | 12V battery system solar input power | 780W   | 1560W |
|                         | 24V battery system solar input power | 1300W  | 3120W |
|                         | 36V battery system solar input power | 1950W  | 4680W |
|                         | 48V battery system solar input power | 3200W  | 6240W |
| Charging characteristic | Battery type                         | Sealed lead-acid battery、Gel lead-acid battery、Flooded lead-acid battery、user-defined、lithium-ion battery  |       |
|                         | Rated maximum charging current       | 60A  | 120A  |
| Load parameter          | rated load current                   | 40A  | 60A   |
|                         | load control mode                    | Normally open / normally closed mode, optical control mode, dual period control mode, optical control delay mode                                 |       |
| Other properties        | communication method                 | RJ45 interface / RS485 communication standard MODBUS (PC software WiFi module mobile app / Bluetooth module mobile app / centralized monitoring) |       |
|                         | Working ambient temperature          | -20°C~+50°C  |       |
|                         | IP protection level                  | IP21   |       |
|                         | Product size                         | 19 inches  |       |

## Parameter



Remarks:

1. The above is the standard parameters of the company. If there are any changes, please check our official website;
2. Our company can customize non-conventional MPPT controllers for customers and provide OEM and ODM services;