

iTracer Dream Series

30A 40A 45A 60A / 12V-24V / 12V-24V-48V

Product Features

- PV Max.Open circuit Voltage:120V/150V
- Rated Charging Power & Current Limitation
- Innovative MPPT technology & ultra-fast tracking speed, Wide MPPT voltage range,Maximizes the utilization of PV modules
- Compatible with various types of batteries: lithium, gel, sealed, etc
- Stable self-activation for lithium batteries
- RS485 communication interface with optional Bluetooth or Wi-Fi modules for remote monitoring
- Parameter setting via LED screen with backlight
- Tracking efficiency is no less than 99.5%
- Maximum DC/DC conversion efficiency of 98%
- Common negative design
- IP32 enclosure, Comprehensive electronic protections



MPPT



Parameters adjustable



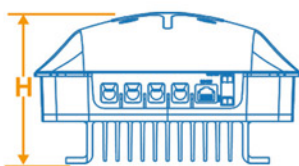
Black LED Display



External Bluetooth/WiFi

Mechanical Size

Model	iTD2412	iTD4315	iTD2612	iTD4415
Rated charge current	45A	30A	60A	40A
Size (L×W×H)mm	258×170×97mm		288×190×108mm	
Mounting hole size	Φ5mm		Φ6mm	
N.W.(Kgs.)	1.73 KG		2.3 KG	
Carton weight(Kgs)	18.5 KG		16.8 KG	
Outer box size(mm)	465×293×460mm		472×331×405mm	
Pcs/CTN	8 pcs		6 pcs	



Dimension reference drawing



Product Specifications

Item	iTD2412	iTD2612	iTD4315	iTD4415
System nominal voltage ^①	12/24VDC Auto		12/24V/48V DC Auto	
Rated charge current	45A	60A	30A	40A
Battery voltage range	8~32V		8~68V	
Max. PV open circuit voltage	②120V③110V		②150V③138V	
MPP voltage range	(Battery voltage +2V)~ 85V		(Battery voltage +2V)~ 108V	
Rated chargepower	600W/12V 1200W/24V	800W/12V 1600W/24V	390W/12V 780W/24V 1560W/48V	600W/12V 1200W/24V 2400W/48V
Self-consumption	≤70mA(12V)/40mA(24V)/24mA(48V)			
LVD	11.0V ADJ 9V...12V; ×2/24V; ×4/48V			
LVR	12.6V ADJ 11V...13.5V; ×2/24V; ×4/48V			
Float voltage	13.8V ADJ 13V...15V; ×2/24V; ; ×4/48V			
Boost voltage	14.4V ; ×2/24; ×4/48V Battery Voltage less than 12.6V Start Boostchanging for 2hours			
MPPT tracking efficiency	≥99.5%			
Max. Conversion efficiency	98%			
Grounding	Common Negative			
Battery Type	Sealed(Default)/Gel/Flooded/LiFePO4/ Li(NiCoMn)O2/ User			
Temperature compensateCoefficient ^④	-4mv/°C/2V			
Communication method	RS485(5VDC/200mA)			
Working environment temperature◆	-20°C~+50°C(100% input and output)			
Storage temperature range	-20°C~+70°C			
Relative humidity	≤95%, N.C.			
Enclosure	IP32			

①When a lithium battery is used, the system voltage can't be identified automatically.

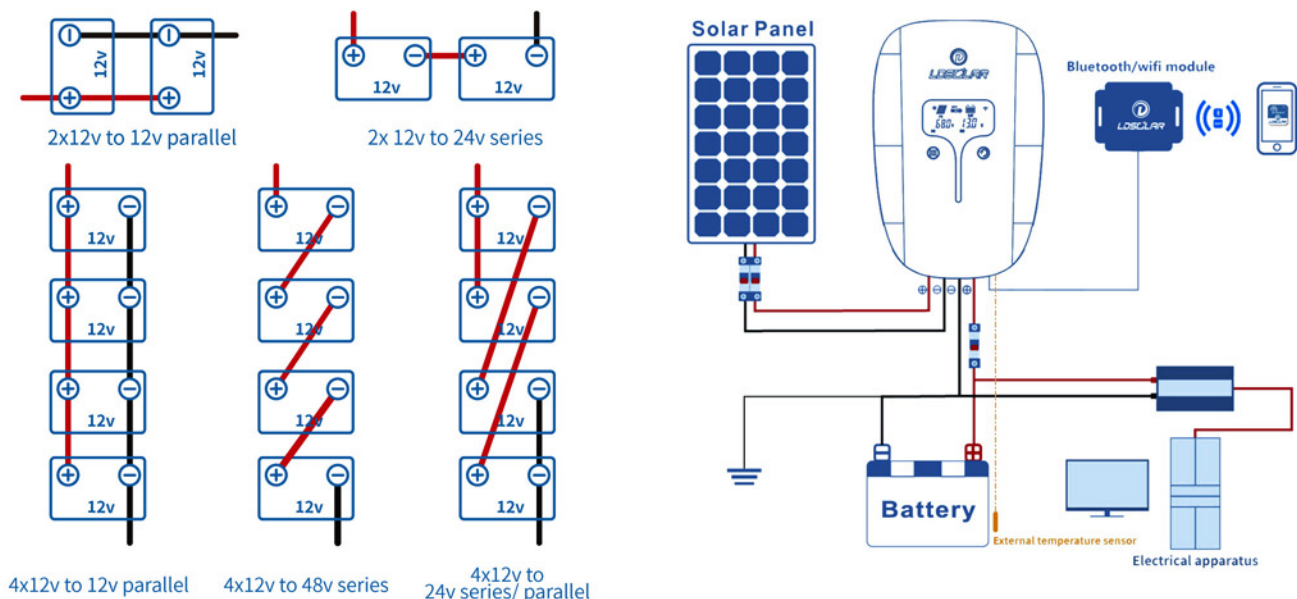
②At minimum operating environment temperature

③At 25°C environment temperature

④When a lithium battery is used, the temperature compensate coefficient will be 0.

◆The controller can work under full load in the working environment temperature, When the internal temperature is more than 80°C, the reducing power charging mode is turned on.

Wiring Connection



● Example Wiring Methods

● Connection diagram