

SOLAR CHARGER CONTROLLER

MPPT ITRACER Series IT3415ND / IT4415ND / IT6415ND

Solar Charger Controller function to regulate energy in (charge) and out (discharge). Charging the battery from input PV Array can be controlled so that it will not happen over charge which can result in damage to the battery. Conversely, if the energy remaining in the battery has reached a minimum limit, it automatically SCR will break a line energy to the load (the user).

For use in SHS, PJU solar energy, Off-Grid systems, PLTS centralized/communal, PV Hybrid systems



	IT3415ND	IT4415ND	IT6415ND
MERK	ITRACER		
FITUR	light and programmable timer control		
VOLTAGE	12V/24V/36V/48V (auto)		
RATED CURRENT	30 A	45 A	60 A
MAX PV OPEN CIRCUIT VOLTAGE	150 V	150 V	150 V
MAX PV INPUT POWER	400W (12V) 800W (24V)	600W (12V) 1200W (24V)	800W (12V) 1600W (24V)
	1200W (36V) 1600W (48V)	1800W (36V) 2400W (48V)	2400W (36V) 3200W (48V)
TRACKING EFFICIENCY	99%	99%	99%
PEAK CONVERSION EFFICIENCY	98%	98%	98%
DIMENSI	358 x 219 x 102mm	382 x 231 x 107mm	440 x 231 x 110mm
BERAT	3.7 kg	4.6 kg	5.9 kg
ENCLOSURE	IP20	IP20	IP20

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iTracer is an industrial grade product with advanced Maximum Power Point Tracking (MPPT) algorithm. It can deliver the maximum available power for charging batteries and charge a lower nominal voltage battery from a higher nominal voltage array. And can be applied in off-grid PV systems up to 3KW. The die-cast aluminium design ensures excellent heat dispersion.

It comes with a number of outstanding features, such as:

- Advanced MPPT Algorithm with the maximum tracking efficiency of 99%
- Multi phase synchronous rectification technology realizing peak conversion efficiency 98%
- Dual-core (ARM CPU+DSP) control architecture improves the system response speed and optimizes the performances of the system.

TECHNICAL SPECIFICATION

ELECTRICAL PARAMETER	IT3415ND	IT4415ND	IT6415ND
NOMINAL SYSTEM VOLTAGE		12 / 24V AUTOWORK	
RATED BATTERY CURRENT	30A	45A	60A
RATED LOAD CURRENT	30A	45A	60A
MAX. PV OPEN CIRCUIT VOLTAGE		150 V	
VOLTAGE RANGE		8~72 V	
MAX. PV INPUT POWER	400W (12V) 800W (24V) 1200W (36V) 1600W (48V)	600W (12V) 1200W (24V) 1800W (36V) 2400W (48V)	800W (12V) 1600W (24V) 2400W (36V) 3200W (48V)

BATTERY VOLTAGE PARAMETERS	GEL	SEALED	FLOODED	USER
EQUALIZE CHARGING VOLTAGE	14.2V	14.6V	14.8V	9~17V
BOOST CHARGING VOLTAGE	14.2V	14.4V	14.6V	9~17V
FLOAT CHARGING VOLTAGE	13.8V	13.8V	13.8V	9~17V
LOW VOLTAGE RECONNECT VOLTAGE	12.6V	12.6V	12.6V	9~17V
LOW VOLTAGE DISCONNECT VOLTAGE	11.1V	11.1V	11.1V	9~17V
SELF-CONSUMPTION	1.4~2.2 W			
GROUNDING	Common Negative			
TRACKING EFFICIENCY	99%			
PEAK CONVERSION EFFICIENCY	98%			

ENVIRONMENTAL PARAMETERS		MECHANICAL	IT3415ND	IT4415ND	IT6415ND
AMBIENT TEMP. RANGE	-25°C ~ +55°C	DIMENSIONS	358X219X102mm	382X231X107mm	440x231x110mm
STORAGE TEMP. RANGE	-30°C ~ +85°C	MOUNTING	339X195mm	362X205mm	420X205mm
HUMIDITY	95% N.C.	NET. WEIGHT	3.7kg	4.6kg	5.9kg
ENCLOSURE	IP20	TERMINAL	25mm ²	35mm ²	35mm ²