



Tracer A series

MPPT solar charge controller

Tracer A series adopts advanced MPPT technology. It can fast and accurately track the maximum power point (MPP) of photovoltaic array in any situation and obtain the maximum solar energy at any time, which remarkably improves energy efficiency.

With Modbus communication protocol interface, it is convenient for user to expand applications and meet monitoring requirements in various fields like telecommunication base station, household system, lighting system etc.

FEATURES

- Advanced MPPT technology
- High tracking efficiency no less than 99.5%
- Peak conversion efficiency of 98%
- Ultra-fast tracking speed
- Accurately recognizing and tracking MPP of multiple wave crest
- Automatic PV power limit function
- Multi-function LCD displays system information intuitively
- User programmable for battery types, load control etc.
- 3-Stage charge with PWM output
- Common positive grounding design
- RS485 port with industrial standard MODBUS open architecture
- Fully programmable function via remote meter, PC software and Mobile APP



PRODUCT FAMILY

Tracer1210A
Tracer2210A
Tracer3210A
Tracer4210A
12/24V auto work
10A,20A,30A,40A

MT50
Remote meter
with 2m
communication cable

eBox-BLE-01
Bluetooth adapter
with 2m
communication cable

eBox-WIFI-01
WIFI Serial Server
with 2m
communication cable

PC
software

Mobile APP

RTS300R47K3.81A
Remote temperature
sensor(3m)

CC-USB-RS485-150U
PC communication
cable (1.5m)

OTG-12CM
OTG cable
(12cm)

ELECTRONIC PROTECTIONS

- PV short circuit protection
- PV over current protection
- PV reverse polarity protection
- Battery over voltage protection
- Battery over discharge protection
- Battery reverse polarity protection
- Battery overheating protection
- Load short circuit protection
- Load overload protection
- Controller overheating protection

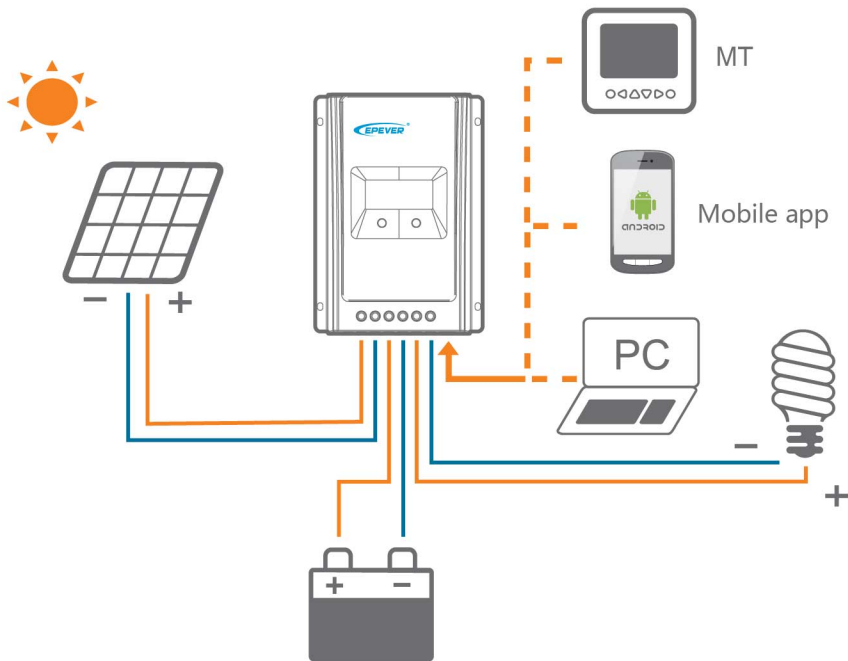
Application



TECHNICAL SPECIFICATIONS

Model	Tracer1210A	Tracer2210A	Tracer3210A	Tracer4210A
Nominal system voltage	12/24V auto work			
Rated charge current	10A	20A	30A	40A
Rated discharge current	10A	20A	30A	40A
Max. PV open circuit voltage	100V at minimum operating environment temperature, 92V at 25℃ environment temperature			
MPP voltage range	(Vbat +2V)~72V			
Max. PV input power	12V 130W	12V 260W	12V 390W	12V 520W
	24V 260W	24V 520W	24V 780W	24V 1040W
Equalize charging voltage※	Sealed: 14.6V, Flooded: 14.8V			
Boost charging voltage※	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V			
Float charging voltage※	13.8V			
Low voltage reconnect voltage※	12.6V			
Low voltage disconnect voltage※	11.1V			
Self-consumption	≤20mA(12V), ≤16mA(24V)			
Temp. compensation	-3mV/℃/2V			
Communication	RS485(RJ45 interface)			
Grounding	Common positive			
Dimension	172x139x44mm	220x154x52mm	228x164x55mm	252x180x63mm
Net weight	0.6kg	1.1kg	1.2kg	1.9kg
Enclosure	IP30			
Working environment temperature	-25℃ ~ +45℃			
Humidity range	≤95% (N.C.)			

※Technical data for 12V system at 25℃, twice in 24V system.
※Programmable voltage value by PC, MT50 and APP.



All product specifications are subject to change without notice.



Tracer BN series

MPPT solar charge controller

Tracer-BN Series is a flagship member among all tracer MPPT controllers. We design with very long lifespan industrial materials and die-cast aluminum housing cooling system, to improve the controller's performance and life. To meet different projects and applications, we built-in RS485 bus interface, with Modbus communication protocol, easy for communication extension with other devices. The optional programmable ability make the controllers work with different batteries, control your DC load remotely on/off by manual, timer, light and etc. Especially, the current limiting function gives you more flexibility for solar PV array.

FEATURES

- Advanced Maximum Power Point Tracking (MPPT) technology
- High tracking efficiency ≥ 99.5%
- Peak conversion efficiency of 98%
- Ultra-fast tracking speed
- Accurately tracking and recognizing MPP among multiple wave crest
- Reliable automatic PV current limiting function
- Wide MPP operating voltage range
- Die-cast aluminum design, ensuring excellent heat dissipation
- Multiple load working modes: Manual Control, Light ON/OFF, Light On+Timer and Time Control
- Battery type selection: Sealed, Gel, Flooded and User(programmable)
- Battery temperature compensation
- Real-time energy statistics
- RS485 port with industrial standard MODBUS open architecture
- Real-time data monitoring and parameters setting with MT50, APP or PC software
- Support firmware upgrade

ELECTRONIC PROTECTIONS

- PV short circuit protection
- PV over current protection
- PV reverse polarity protection
- Battery over voltage protection
- Battery over discharge protection
- Battery reverse polarity protection
- Battery overheating protection
- Load short circuit protection
- Load overload protection
- Controller overheating protection

Application



PRODUCT FAMILY

Tracer1215BN
Tracer2215BN
Tracer3215BN
Tracer4215BN
12/24V auto work
10A,20A,30A,40A

MT50
Remote meter
with 2m
communication cable

eBox-BLE-01
Bluetooth adapter
with 2m
communication cable

eBox-WIFI-01
WIFI Serial Server
with 2m
communication cable

PC
software

Mobile APP

RTS300R47K3.81A
Remote temperature
sensor(3m)

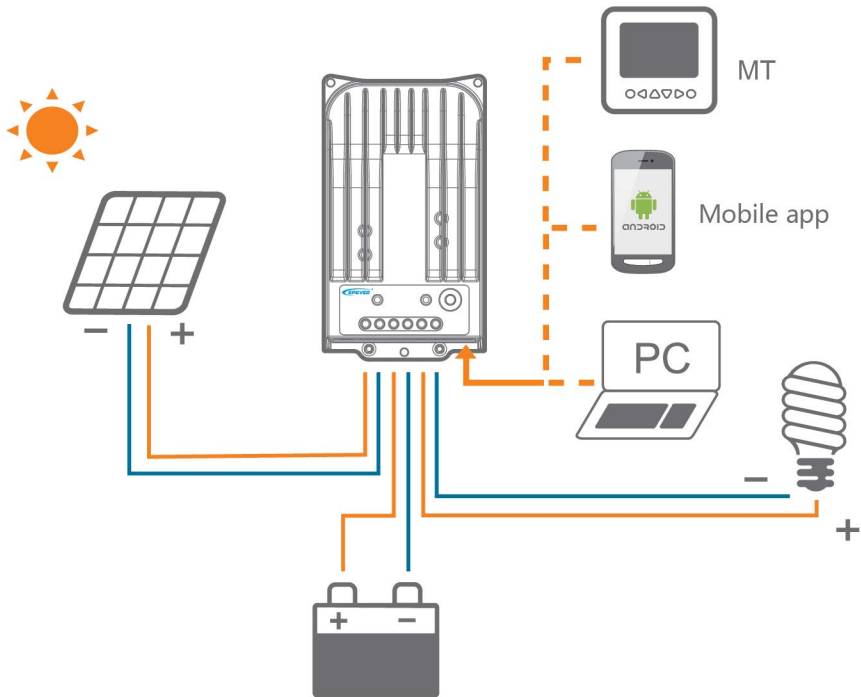
CC-USB-RS485-150U
PC communication
cable (1.5m)

OTG-12CM
OTG cable
(12cm)

TECHNICAL SPECIFICATIONS

Model	Tracer1215BN	Tracer2215BN	Tracer3215BN	Tracer4215BN
Nominal system voltage	12/24V auto work			
Rated charge current	10A	20A	30A	40A
Rated discharge current	10A	20A	20A	20A
Max. PV open circuit voltage	150V at minimum operating environment temperature, 138V at 25°C environment temperature			
MPP voltage range	(V _{bat} +2V)~108V			
Max. PV input power	12V 130W	12V 260W	12V 390W	12V 520W
	24V 260W	24V 520W	24V 780W	24V 1040W
Equalize charging voltage※	Sealed: 14.6V, Flooded: 14.8V, User-defined: 9~17V			
Boost charging voltage※	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V, User-defined: 9~17V			
Float charging voltage※	Gel /Sealed /Flooded: 13.8V, User-defined: 9~17V			
Low voltage reconnect voltage※	Gel /Sealed /Flooded: 12.6V, User-defined: 9~17V			
Low voltage disconnect voltage※	Gel /Sealed /Flooded: 11.1V, User-defined: 9~17V			
Self-consumption	≤50mA(12V); ≤27mA(24V)			
Temp. compensation	-3mV/°C/2V			
Communication	RS485(RJ45 interface)			
Grounding	Common negative			
Dimension	196x118x36mm	217x143x56mm	281x160x60mm	303x183x64mm
Net weight	0.9kg	1.5kg	2.3kg	2.9kg
Enclosure	IP30			
Working environment temperature	-35°C ~ +55°C			
Humidity range	≤95% (N.C.)			

※ Technical data for 12V system at 25°C, twice in 24V system.
※ Programmable voltage value by PC, MT50 and APP.



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ViewStar A series PWM solar charge controller

Viewstar A series is common positive controller with LCD display, adopting the most advanced digital technique, high cost performance. The multiple load control modes enable it can be widely used in solar home system, traffic signal, solar street light, solar garden lamp, etc.

FEATURES

- PWM charging
- Battery type selection: Sealed, Gel, Flooded
- Multi-function LCD displays system information intuitively
- Multiple load control modes
- Energy statistics function
- Optional RTS for accurate temperature compensation
- Extensive electronic protection



ELECTRONIC PROTECTIONS

- PV short circuit protection
- PV reverse polarity protection
- Battery over voltage protection
- Battery over discharge protection
- Battery reverse polarity protection
- Battery overheating protection
- Load overload protection
- Load short circuit protection
- Controller overheating protection

Application



PRODUCT FAMILY



VS1024A/ VS2024A/ VS3024A
12/24V auto work
10A,20A,30A

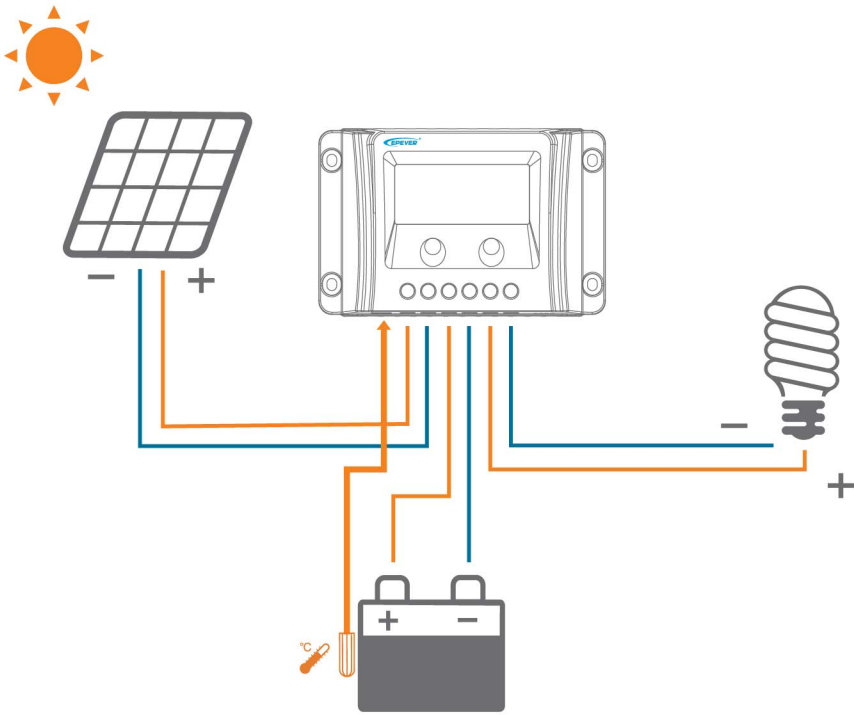


RTS300R47K3.81A
Remote temperature sensor

TECHNICAL SPECIFICATIONS

Model	VS1024A	VS2024A	VS3024A
Nominal system voltage	12/24V auto work		
Rated charge current	10A	20A	30A
Rated discharge current	10A	20A	30A
Battery input voltage range	9~32V		
Max. PV open circuit voltage	50V		
Equalize charging voltage※	Sealed: 14.6V, Flooded: 14.8V		
Boost charging voltage※	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V		
Float charging voltage※	13.8V		
Low voltage reconnect voltage※	12.6V		
Low voltage disconnect voltage※	11.1V		
Self-consumption	≤8.1mA(12V);≤6.5mA(24V)		
Temp. compensation	-3mV/°C/2V		
Grounding	Common positive		
Dimension	132x84.6x39.7mm	149x94.1x46.1mm	177.5x106.6 x46.2mm
Net weight	0.18kg	0.26kg	0.33kg
Enclosure	IP30		
Working environment temperature	-25℃~+45℃		
Humidity range	≤95% (N.C.)		

※ Technical data for 12V system at 25℃, twice in 24V system.



ViewStar BN series

PWM solar charge controller



This Viewstar BN series is common negative controller, with LCD display, working data programmable, It has communication function via RS485 port to PC monitoring software, realizing real-time monitoring and battery management parameter setting.

FEATURES

- PWM charging
- 32 bit MCU with high speed
- Battery type selection: Sealed, Gel, Flooded, and User(programmable)
- Intelligent lighting and timer control for solar lighting system
- 12 bit A/D high-precision sampling to ensure accuracy
- Full control parameters setting and modification, diversified load control mode
- Humanized design of browser interface
- Battery temperature compensation
- Adopt graphics dot-matrix LCD screen and 4 buttons for integrated menu displaying and operation
- Real-time energy statistics
- RS485 port with industrial standard MODBUS open architecture
- Real-time data monitoring and parameters setting with MT50, APP or PC software
- Support firmware upgrade



ELECTRONIC PROTECTIONS

- PV short circuit protection
- PV reverse polarity protection
- Battery over voltage protection
- Battery over discharge protection
- Battery reverse polarity protection
- Battery overheating protection
- Load overload protection
- Load short circuit protection
- Controller overheating protection

Application



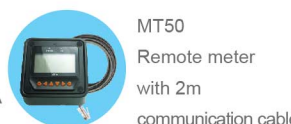
PRODUCT FAMILY



VS**24BN
12/24V
10A,20A,30A,
45A,60A



VS**48BN
12/24/36/48V
20A,30A,45A,60A



MT50
Remote meter
with 2m
communication cable



eBox-BLE-01
Bluetooth adapter
with 2m
communication cable



eBox-WIFI-01
WIFI Serial Server
with 2m
communication cable



PC
software



Mobile APP



RTS300R47K3.81A
Remote temperature
sensor(3m)



CC-USB-RS485-150U
PC communication
cable (1.5m)



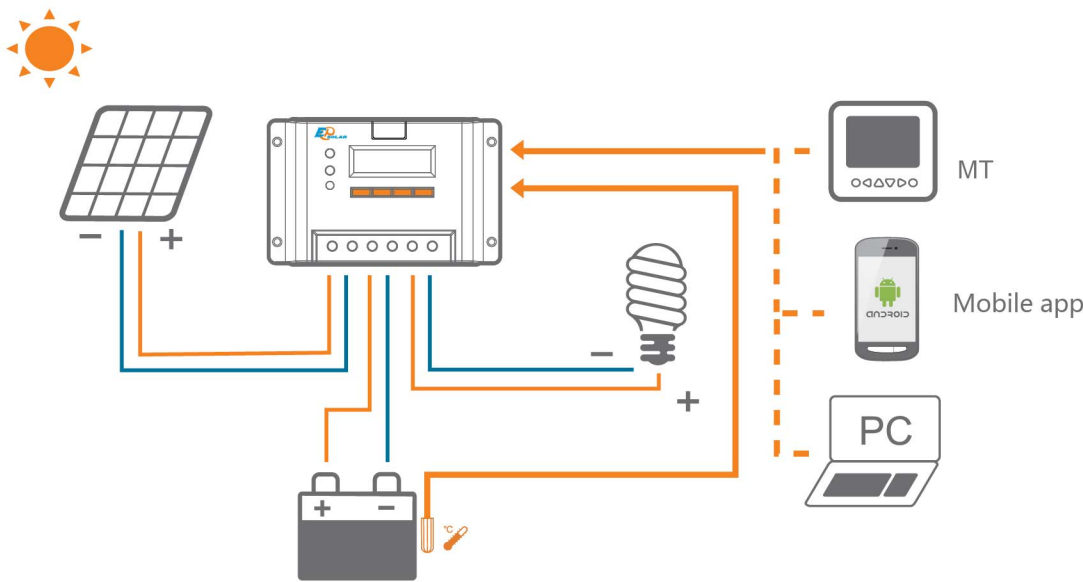
OTG-12CM
OTG cable
(12cm)

TECHNICAL SPECIFICATIONS

Model	VS1024BN	VS2024BN	VS3024BN	VS4524BN	VS6024BN
		VS2048BN	VS3048BN	VS4548BN	VS6048BN
Nominal system voltage	12/24V auto work	VS**24BN 12/24V auto work VS**48BN 12/24/36/48V auto work			
Rated charge current	10A	20A	30A	45A	60A
Rated discharge current	10A	20A	30A	45A	60A
Max. PV open circuit voltage	12V/24V 50V; 12/24/36/48V 96V				
Equalize charging voltage※	Sealed: 14.6V, Flooded: 14.8V, User-defined: 9~17V				
Boost charging voltage※	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V, User-defined: 9~17V				
Float charging voltage※	Gel /Sealed /Flooded: 13.8V, User-defined: 9~17V				
Low voltage reconnect voltage※	Gel /Sealed /Flooded: 12.6V, User-defined: 9~17V				
Low voltage disconnect voltage※	Gel /Sealed /Flooded: 11.1V, User-defined: 9~17V				
Self-consumption	≤15mA(12V); ≤10mA(24V); ≤9mA(36V); ≤8mA(48V)				
Temp. compensation	-3mV/℃/2V				
Communication	RS485(RJ45 interface)				
Grounding	Common negative				
Enclosure	IP30				
Working environment temperature	-25℃~+55℃				
Humidity range	≤95% (N.C.)				

※ Technical data for 12V system at 25℃, twice in 24V system, triple in 36V system and quadruple in 48V system.
※ Programmable voltage value by PC, MT50 and APP.

Model	VS1024BN	VS2024BN	VS3024BN VS2048BN	VS4524BN VS3048BN	VS4548BN	VS6024BN	VS6048BN
Dimension	162×85×40mm	162×100×50mm	200×103×58mm	201×109×59mm	205×119×67mm	205×129×67mm	205×174×64mm
Net weight	0.2kg	0.4kg	0.7kg	0.9kg	1.2kg	1.3kg	1.5kg



All product specifications are subject to change without notice.



LandStar B series PWM solar charge controller

Landstar B series controller with high reliability, accuracy of sampling and full electronic protection. Programmable via remote meter MT50 ,PC software and APP.

FEATURES

- PWM charging
- Three LEDs shows PV charging, battery and load status
- Optional RTS for accurate temperature compensation
- RS485 port with industrial standard MODBUS open architecture
- Multiple load working modes: Manual Control, Light ON/OFF, Light On+Timer and Time Control
- Battery type selection: Sealed, Gel, Flooded and User (programmable)
- Battery temperature compensation
- Real-time energy statistics
- RS485 port with industrial standard MODBUS open architecture
- Real-time data monitoring and parameters setting with MT50, APP or PC software
- Support firmware upgrade



ELECTRONIC PROTECTIONS

- PV short circuit protection
- PV reverse polarity protection
- Battery over voltage protection
- Battery over discharge protection
- Battery reverse polarity protection
- Load short circuit protection
- Load overload protection
- Overheating protection

Application



PRODUCT FAMILY

LS1024B
LS2024B
LS3024B
12/24V
10A,20A,30A

LS1024BP
LS2024BP
12/24V
10A,20A
Waterproof, IP67

MT50
Remote meter
with 2m
communication cable

eBox-BLE-01
Bluetooth adapter
with 2m
communication cable

eBox-WIFI-01
WIFI Serial Server
with 2m
communication cable

PC
software

Mobile APP

RTS300R47K3.81A
Remote temperature
sensor(3m)

CC-USB-RS485-150U
PC communication
cable (1.5m)

OTG-12CM
OTG cable
(12cm)

TECHNICAL SPECIFICATIONS

Model	LS1024B	LS1024BP	LS2024B	LS2024BP	LS3024B
Nominal system voltage	12/24V auto work				
Rated charge current	10A	10A	20A	20A	30A
Rated discharge current	10A	10A	20A	20A	30A
Max. PV open circuit voltage	50V				
Equalize charging voltage※	Sealed: 14.6V, Flooded: 14.8V, User-defined: 9~17V				
Boost charging voltage※	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V, User-defined: 9~17V				
Float charging voltage※	Gel /Sealed /Flooded: 13.8V, User-defined: 9~17V				
Low voltage reconnect voltage※	Gel /Sealed /Flooded: 12.6V, User-defined: 9~17V				
Low voltage disconnect voltage※	Gel /Sealed /Flooded: 11.1V, User-defined: 9~17V				
Self-consumption	≤8.4mA(12V), ≤7.8mA(24V)				
Temp. compensation	-3mV/°C/2V				
Communication	RS485(RJ45 interface)				
Grounding	Common positive				
Dimension	138.6×69.3×37mm	108.5×64.5×25.6mm	159.6×81.4×47.8mm	139×76.5×28mm	200.6×101.3×57mm
Net weight	0.13kg	0.4kg	0.3kg	0.6kg	0.5kg
Enclosure	IP30	IP67	IP30	IP67	IP30
Working environment temperature	-35℃ ~ +50℃				
Humidity range	≤95% (N.C.)				

※ Technical data for 12V system at 25℃, twice in 24V system.

※ Programmable voltage value by PC , MT50 and APP.

