Main Feature of MPPT solar charge controller eSmart(12V24V36V48V,50A-60A)

1 The tracking efficiency is as high as 99.5%.

2 Built-in lithium battery activated wake-up function.

3 RS485 bus, unified integrated management and secondary development.

4□A variety of protection functions, small body is very useful.

Specification parameter

eSMART 4 Serie	es	ESF48L50	ESF48L60	ESF48H50	ESF48H60
Reted PV	12V system	650W	780W	650W	780W
	24V system	1300W	1650W	1300W	1650W
Power	36V system	1950W	2340W	1950W	2340W
	48V system	2600W	1320W	2600W	1320W
Rated charge cur	ited charge current 50A 60A 50A 60A		60A		
Rated load currer	nt	30A			
IP(Ingress protect	gress protection) IP21				

MPPT solar charge controller

HIGH QUALITY HIGH EFFICIENCY LOW ENERGY CONSUMPTION



50A/60A 12V/24V/36V/48V



Up to 98% conversion

Lithium battery wake up

Set your own battery type

High speed mute fan

Multiple protection

Support remote monitoring





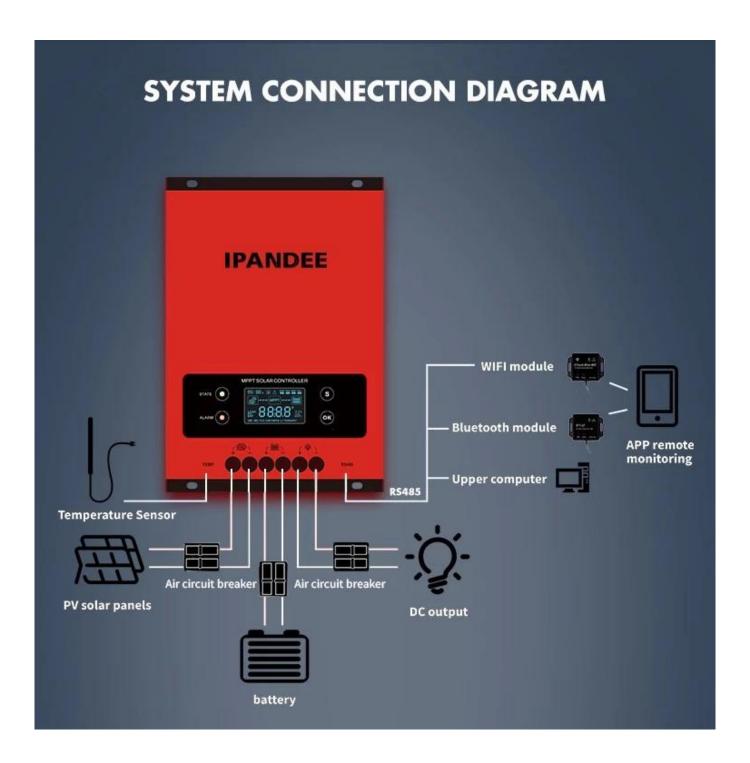




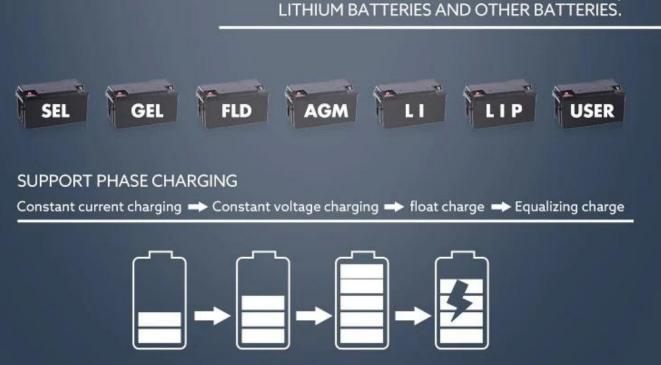
SIMPLE OPERATION SCREEN



① ા	LCD display	(5)	Temperature sensing wire connector
② f	Charge status and fault indicators	6	Mounting hole for grounding
3 H	Holes for wiring screws	7	RJ45 serial communication interface
	nput and output power line connectors	8	Operation buttons



IT SUPPORTS VARIOUS LEAD-ACID BATTERIES,



SUPPORTS CLOUD REMOTE MONITORING

Cloud monitoring knowing the power situation anytime and anywhere











The 8-pin RJ45 interface can select appropriate external devices according to the project configuration to realize external communication modules such as the upper computer, wifi, Bluetooth, 4G, monitoring data instrument, etc., and remotely monitor and set the power consumption through the cloud system.

OPTIONAL ACCESSORIES



Cloud - Box - M2 wifi module

This module with router can be used for remote cloud monitoring and parameter setting.

BT - 02 The bluetooth module

This module can realize medium and short distance mobile APP monitoring and parameter setting and other functions.





MH-M80 Remote meter

This module can be used for short distance monitoring and setting operations.

RS485 to USB communication cable

This accessory can be connected to a PC, install the upper computer software for monitoring and setting operations.



SPECIFICATIONS

7 7 11		ESF48L50	ESF48L60	ESF48H50	ESF48H60		
MPPT efficiency No-load static l	Programme and the second	≥99.5%					
	loss	0.5W~1.2W					
system voltage Cooling method		Auto					
		Fan cooling					
PV Maximum Open Circuit Voltage Turn on the charging voltage point		150Vdc 200Vdc					
181		3V higher than battery voltage					
Input low voltage p	SHIMOTOCOURS	2V higher than the current battery voltage					
nput overvoltage p	MARKON MENNAMENTAL	NAME OF THE OWNER, THE	150Vdc	200Vdc			
	12V system	650W	780W	650W	780W		
Rated input power	24V system	1300W	1560W	1300W	1560W		
	36V system	1950W	2340W	1950W	2340W		
	48V system	2600W	3120W	2600W	3120W		
Applicable battery type		Lead-acid battery / Li-ion battery					
Lithium battery activation function		Optional					
harge rated curre	ent	50A 60A 50A 60A					
charging method		Lead-acid battery: fast charge, equal charge, floating charge;					
		lithium battery: fast charge, equal charge					
load voltage		same battery voltage					
Rated load current		30A					
Load control method		Normally open and normally closed mode/dual period control mode/ light control mode/light control-fixed time control mode					
Display method	olay method High-definition LCD segment code backlight dis		display				
communication method		8-pin RJ45 interface/RS485/support host computer monitoring/ support external Bluetooth, WIFI module expansion to realize app cloud monitoring/support external monitoring header					
Protective function		Input and output over-voltage protection, anti-reverse connection protection, battery drop protection, etc.					
Working tempera	iture	-20℃~+50℃					
Storage tempera	ture	-40℃~+75℃					
IP protection class		IP21					
Maximum wire si	ze	20mm2					
Net weight (kg)		1.84					
Gross weight (kg)		2.81					
Product size (mm)		240*166*65					
Packaging size (mm)		299*203*70					

APPLICATION SCENARIOS

