

User's Manual

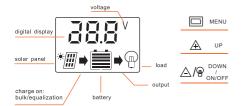
ITECHWORLD User's Manual

Safety Instructions

- 1.Make sure your battery has enough voltage for the controller to recognize the battery type before first installation.
- 2. The battery cable should be as short as possible to minimize power loss.
- 3. This solar regulator is preset to suit lithium Ion batteties. (Please set the controller to the correct battery type when usina.)
- 4. The charge regulator is only suitable for regulating solar modules. Never connect another charging source to the charge regulator.
- 5. The controller will get hot when it is working, please install the controller on a smooth, well ventilated surface.

- 1.Built-in industrial micro controller.
- 2.LCD display with adjustable parameters. 3.Fully 3-stage PWM charge management.
- 4. Built-in short-circuit protection. open-circuit protection. reverse protection, over-load protection.
- 5. Dual mosfet reverse current protection, low heat production.

LCD Display/Key



menu:switch between different display,or to enter/exit setting by long press.

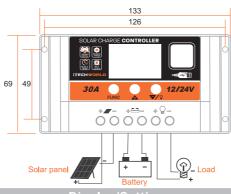
up:press to increase value.

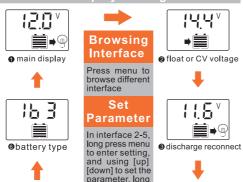
down:press to decrease value.

System Connection

- 1. Connect your battery to the charge regulator positive+and negative-2. Connect your solar panel to the solar input positive+an negative-
- 3. Connect your load to the charge regulator positive+and negative-

The reverse order applies when deinstalling! An improper sequence order can damage the controller!





press menu again to exit.

long press

Attn:1.Press the [down] button to on/off load manully at main display. 2. The work mode is working as below:

[down]

[24H]Load output 24 hours

awork mode

11-23HILoad on after sunset and closed after setting hours

[0H]Dusk to dawn

1001

discharge stop

Trouble Shooting				
Situation	Probable Cause	Solution		
Charge icon not on when sunny	Solar panel opened or reversed	Reconnect		
Load icon off	Mode setting wrong	Set again		
	Battery low	Recharge		
Load icon slow flashing	Over load	Reduce load watt		
Load icon fast flashing	Short circuit protection	Auto reconnect		
Power off	Battery too low/ Reverse	Check battery/ Connection		

Technical Parameter					
2420		2440			
12V/24V AUTO					
10A	20A	30A	40A		
10A	20A	30A	40A		
<50V					
t Battery Type 1B3 (3.2V*4)(12V)(Lithium Lifep			Lifepo4)		
14.4V (defaul,adjustable)					
10.4V (defaul,adjustable)					
11.6V (defaul,adjustable)					
LifePo4		Gel			
1b3	2b3	1b1	2b1		
12V	24V	12V	24V		
14.4V	28.8V	13.7V	27.4V		
10.4V	20.8V	10.7V	21.4V		
11.6V	23.2V	12.6V	25.2V		
14.4V	28.8V	14.4V	28.8V		
	10A 10A 1B3 (3.2 14 10 11 Lifei 1b3 12V 14.4V 10.4V	2420 12V/24 10A 20A 10A 20A < 5 1B3 (3.2V*4)(12V 14.4V (defa 10.4V (defa 11.6V (defa LifePo4 1b3 2b3 12V 24V 14.4V 28.8V 10.4V 20.8V 11.6V 23.2V	2420 2 12V/24V AUTO 10A 20A 30A 10A 20A 30A < 50V 1B3 (3.2V*4)(12V)(Lithium 14.4V (defaul,adjusta 10.4V (defaul,adjusta 11.6V (defaul,adjusta LifePo4 Gel 1b3 2b3 1b1 12V 24V 12V 14.4V 28.8V 13.7V 10.4V 20.8V 10.7V 11.6V 23.2V 12.6V		

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