



HP2440 SOLAR CHARGE CONTROLLER

DEHCO, INC.

FEATURES

- 12V/24V SYSTEM VOLTAGES ARE AUTOMATICALLY RECOGNIZED
- CHARGING PROGRAM OPTIONS FOR SEALED, GEL AND GLOODED LEAD-ACID BATTERIES AND LITHIUM BATTERIES
- AN UPGRADED 3-STAGE PWM CHARGING ALGORITHM
- WITH TEMPERATURE COMPENSATION, CHANGING PARAMETERS CAN AUTOMATICALLY BE CHANGED (EXCEPT LITHIUM BATTERIES)
- CONTROLLER PROVIDES OVERCHARGE, OVER-DISCHARGE, OVERLOAD PROTECTION, AS WELL AS SHORT-CIRCUIT AND REVERSE-CONNECTION PROTECTION
- OPTIONAL RJ12 DATA PORT FOR OUTPUT OF TTL 232 OR BLUETOOTH SIGNAL

HP2440 SOLAR CHARGE CONTROLLER

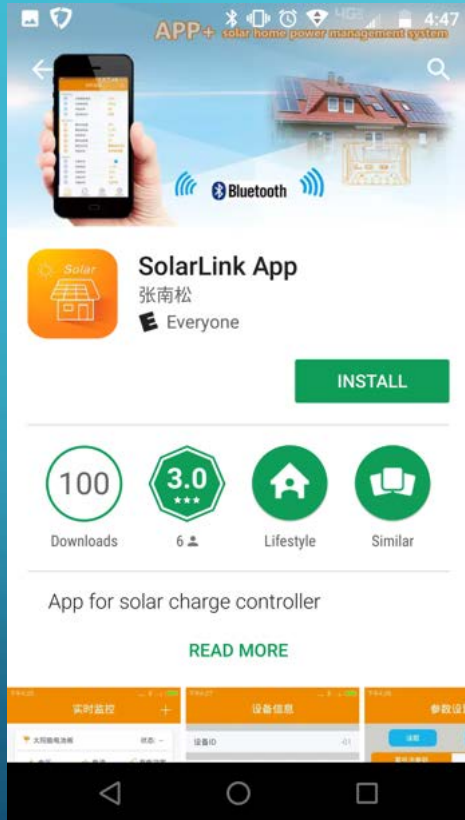


TECHNICAL PARAMETERS

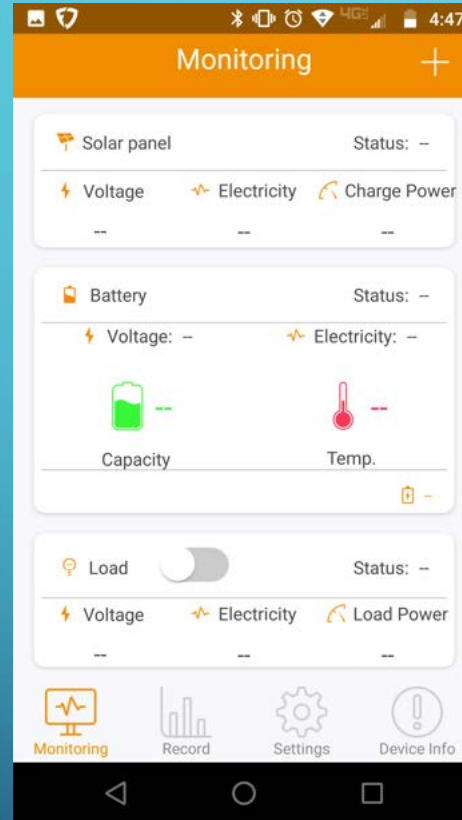
Model	HP2430/2440	HP2450/2460	HP4830/4840	Remarks	
Rated current	30A/40A	50A/60A	30A/40A		
System voltage	Automatic recognition of 12V/24V		48V		
No-load loss	< 13mA/12V; < 15mA/24V		<20mA		
Max. Solar energy Input voltage	<55		<110V		
Max. voltage at the battery end	<34V		<68V		
Max. voltage at the battery end	Parameters				Default SLD
	Flooded FLD	Sealed SLD	GEL GEL	Lithium LI	
Overvoltage protection	16.0V				
Equalizing charging voltage	14.8	14.6	-	-	x1/12V; x2/24V; x4/48V;
Boost charging voltage	14.6	14.4	14.2	14.4	
Floating charging voltage	13.8	13.8	13.8	-	
Charging recovery voltage	13.2V				
Over-discharge recovery voltage	12.5V (settable with the keys)				
Over-discharge voltage	11.0V (settable with the keys)				
Equalizing charging interval	30days	-	-	-	
Equalizing charging time	1H	-	-	-	
Boost charging time	2H		-	-	
Temperature compensation	-3.0mV/°C/2V		-	-	
Light control voltage	Light control on 5V, light control off 4 V (light control on minus 1 V)				x1/12V; x2/24V; x4/48V;
Light control judgment time	10 minutes				
USB function	Yes	No	No		
Operating temperature	-25°C to +55°C;				
IP protection degree	IP30				
Net weight	390g	650g	650g		
Protection functions	attery reverse connection protection, solar panel reverse connection protection, reverse charging protection at night				
	Charging overload protection, overcurrent protection, short circuit protection				
Dimensions(mm)	164.0×103.5×47.0	189.27×127.2×54.0	189.27×127.2×54.0		

HOW TO ADD THE APP AND DEVICE

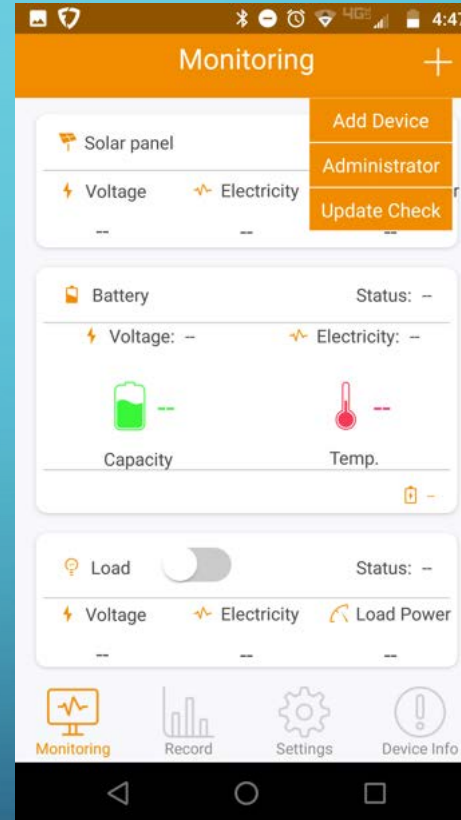
INSTALL SOLARLINK
APP Solar App on IOS



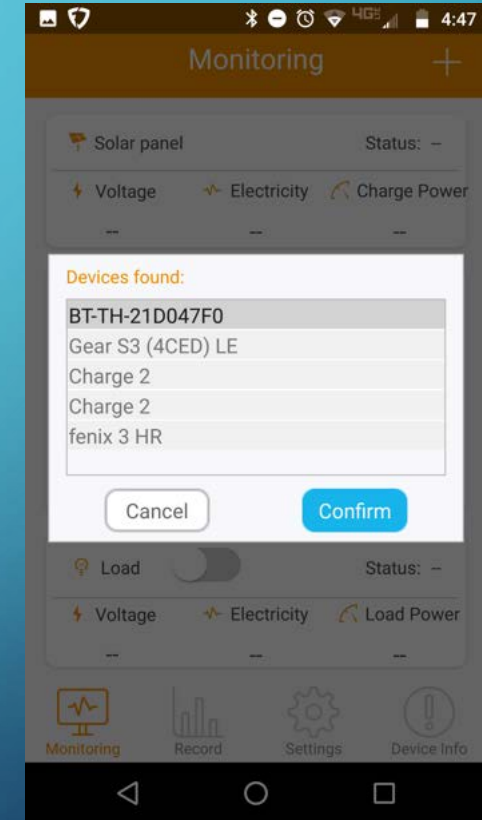
OPEN APP



CLICK PLUS &
ADD DEVICE



SELECT BT-TH-21D047F0 AND
CONFIRM



MONITORING, SETTINGS, DEVICE INFO DISPLAYED

Monitoring

Solar panel Status: Normal

Voltage	Electricity	Charge Power
8.9V	0.00A	0W

Battery Status: Batt low volt alart

Voltage: 11.2V	Electricity: 0.00A
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Capacity: 11% Temp: 25°C

Charge not ready

Load Status: Close

Voltage	Electricity	Load Power
0.0V	0.00A	0W

Monitoring Record Settings Device Info

Settings

Read Set

Battery Parameter Load Parameter

General Parameter

System Voltage(V)	Battery Rated Ah(AH)	Battery Type
12	200	FLD

Advanced Setting

High Volt Disconnect(V)	16.0
Charge Limit Voltage(V)	15.5
Equalize Charge Volt(V)	14.8
Boost Charge Volt(V)	14.6
Float Charge Volt(V)	13.8

Monitoring Record Settings Device Info

Settings

Read Set

Battery Parameter Load Parameter

Low Voltage Alarm(V)	12.0
Over Discharge Volt(V)	11.1
Discharge Limit Volt(V)	10.6
Over Disc Delay Time(S)	5
Equalize Charge Time(Min)	120
Boost Charge Time(Min)	120
Equalize Charge Interval	30
Temperature Compensation (mv/°C/2V)	3

Monitoring Record Settings Device Info

Device Info

Device Model No.	SR-HP2460
Device Version	V1.1.0
Device Sn Code	15080200
Connection status	Device connected

Restore factory default

Disconnect device

Search Device

Monitoring Record Settings Device Info

SOLAR PRODUCTS DIAGRAM

Solar 300

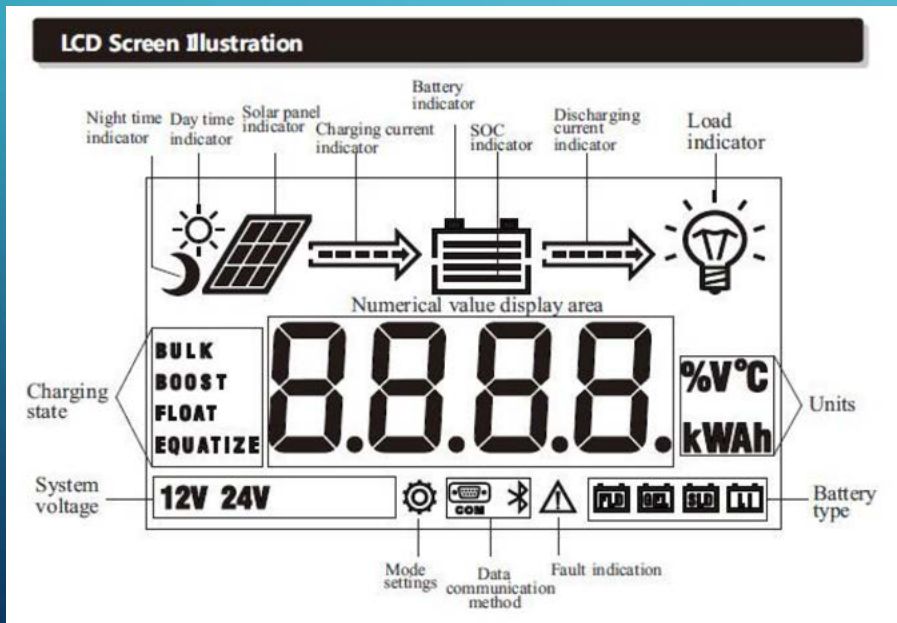
Solar 100



Monitoring

PV Parameter		
PV Voltage		21.5V
PV Current		6.06A
Charge Power		79W
PV Status		Normal
Battery Parameter		
Battery Capacity		93%
Battery Voltage		13.1V
Charge Current		6.06A
Battery Temp.		25°C
Battery Status		Normal
Charge Status		Post charge m
Load Parameter		
Load Switch		<input type="checkbox"/>
Load Voltage		0.0V
Load Current		0.00A
Load Power		0W
Load Status		Close

Monitoring Record Settings Device Info



Battery