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

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			<58V	
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	-	-	
Boost charging voltage	14.6	14.4	14.2	14.4	×1/12V; ×2/24V; ×4/48V;
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 controlvoltage	Light control on 5V, light control off 4 V (light control on minus 1 V)				×1/12V; ×2/24V; ×4/48V;
Light control judgment time	10 minutes				
USB function	Yes	No		No	
Operating temperature	-25°Cto+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
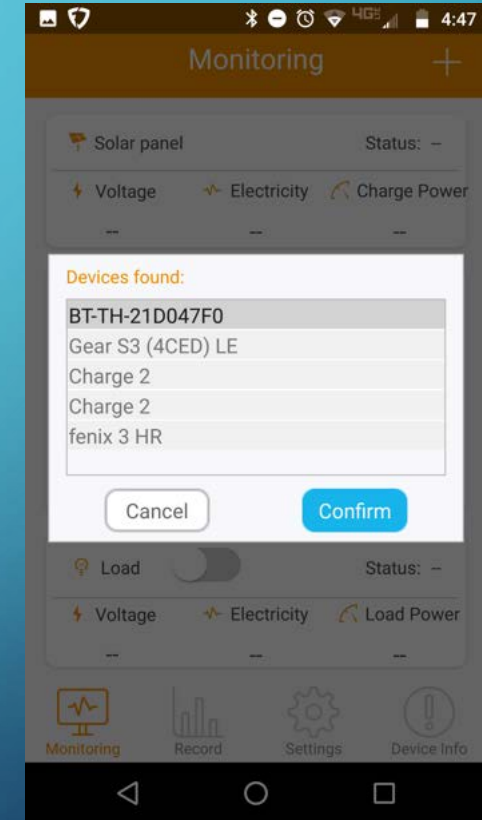
INSTALL SOLARLINK APP Solar App on IOS
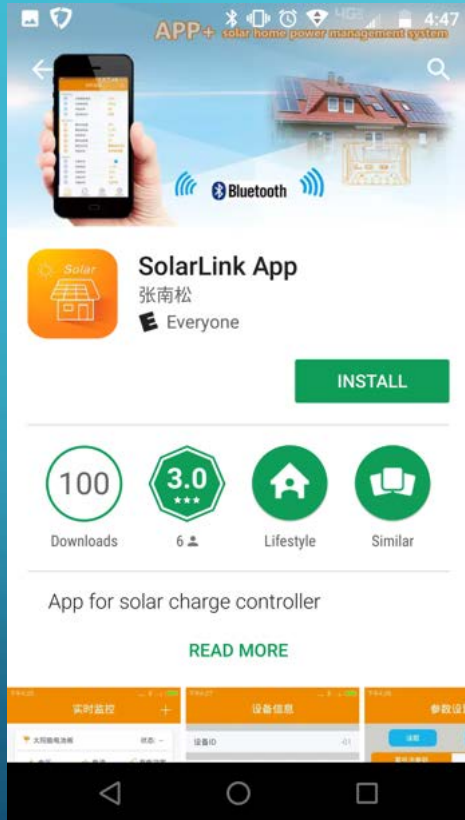
OPEN APP
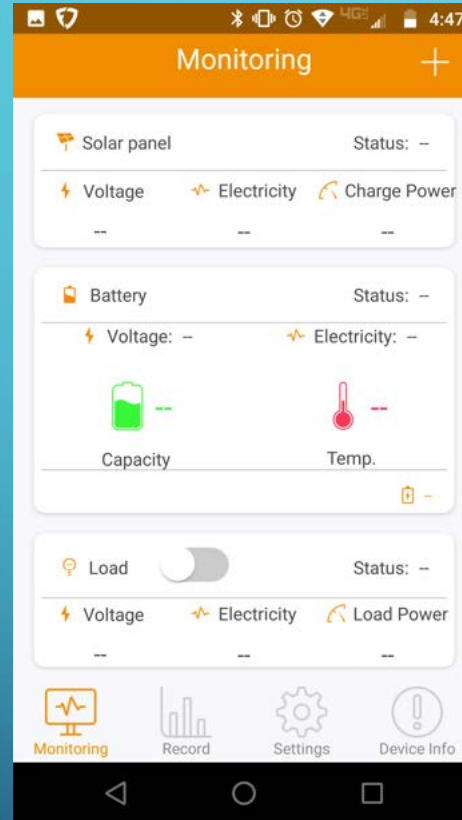
CLICK PLUS & ADD DEVICE
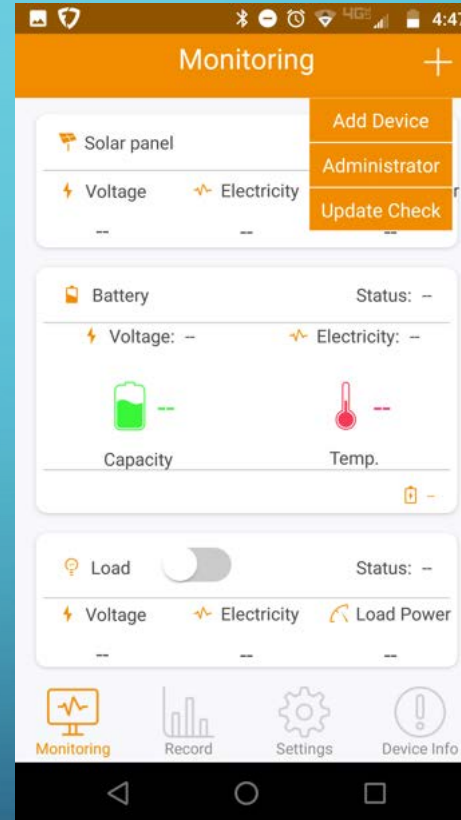
SELECT BT-TH-21D047F0 AND CONFIRM

MONITORING, SETTINGS, DEVICE INFO DISPLAYED

SOLAR PRODUCTS DIAGRAM

Solar 300   Solar 100

Battery