

## LPF-U Series Pwm Solar Charge Controller



### Features

Improving battery life time and system performance by using high efficiency PWM charging method  
LCD design, dynamically displaying devices operating data & working condition  
Temperature compensation, adjusting charging and discharging parameters automatically  
Humanized buttons, easy and convenient to operate  
Advanced industry design, widely applicable

高效的串联式PWM充电方式，延长了蓄电池寿命，提高了系统性能  
采用液晶显示屏设计，动态显示设备的运行数据及工作状态  
采用温度补偿充电控制算法，系统自动调整充放电参数  
人性化按键设置，操作更加舒适、方便  
工业级设计，使用范围更加宽广

### Protections

Battery overcharge protection  
Battery over discharge protection  
Battery reverse polarity protection  
Load short circuit protection  
Load overload protection

### 保护功能

蓄电池过充保护  
蓄电池过放保护  
蓄电池极性反接保护  
负载过载保护  
负载短路保护

### Introductions

LPF-U series controller is an intelligent and multifunctional solar PWM controller with customized LCD screen (colorful/ white/ blue backlight) and friendly humanity operation design, which is flexible to adjust various parameters for your demand.

LPF-U 系列太阳能控制器是一种智能型、多用途太阳能充放电控制器。  
该系列产品使用定制的LCD彩色/白/蓝背光屏，具有非常友好的人性化操作界面。  
各控制参数可灵活设定，充分满足您不同的应用需求。

## Data sheet

Feature	Model	LPF-2410U	LPF-2420U	LPF-2430U	LPF-2440U	LPF-2450U	LPF-2460U
Nominal System Voltage		12/24V auto					
Rated current	10A	20A	30A	40A	50A	60A	
Max.PV open circuit voltage		$\leq 50V$					
Float charging voltage		13.7V/27.4V					
Low voltage reconnect voltage		12.6V/25.2V					
Low voltage disconnect voltage		10.7V/21.4V					
USB output port		5V/3A					
NO load loss		$\leq 20mA$					
Loop voltage drop		$\leq 170mV$					
Charge mode		PWM					
Temp. compensation		-4mV/Cell/°C					
Working temperature		-20°C~+60°C					
Storage temperature		-35°C~+70°C					
Humidity temperature		$\leq 95\%$ N.C.					
Dimension		155*107*45mm		195*135*55mm			
Net weight		238g		510g			

## Application Diagram

