



Model HP2410

Main features of the HP2410 charge-controller

1. 12V/ 24 V. System voltages are automatically recognized.
2. Upgraded 3-stage PWM charging algorithm. Application of an equalizing charging (only for flooded batteries) to the battery periodically, or when over discharged, can effectively prevent the battery from non-equalization and sulfurization, thus extending the battery's service life.
3. With temperature compensation engaged, charging parameters will be automatically adjusted.
4. A wide range of loads are accommodated.
5. The HP2410 provides overcharge, over-discharge, overload protection, as well as short-circuit protection.
6. By virtue of an advanced load starting method, large-capacitance loads can be started smoothly.
7. The model is equipped with a dot matrix graphic LCD screen and a human-machine interface with a button.
8. The user-friendly design of browser and dynamic interfaces ensure convenient and intuitive operations.
9. Boasting an industrial grade design, the model HP2410 can function well in various tough conditions.
10. TVS lightning protection.

Technical

Model	HP2410	HP2420	HP2420-S
Rated current	10A	20A	20A
current display function	No	No	Yes
System voltage	Automatic recognition of 12 V/ 24 V		
No-load loss	< 10mA/12V; < 12mA/24V		

Max. Solar energy input voltage	<55V
Max. voltage at the battery end	<35V
Overvoltage protection	17.0V; ×2/24V;
Equalizing charging voltage	14.6V; ×2/24V;
Boost charging voltage	14.4V; ×2/24V;
Floating charging voltage	13.8V; ×2/24V;
Charging recovery voltage	13.2V; ×2/24V;
Over-discharge recovery voltage	12.6V; ×2/24V;
Over-discharge voltage	11.1V; ×2/24V;
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, ×2/24V; light control off 6V, ×2/24V;
Light control judgment time	1 minute
Operating temperature	-25°C to +55°C;

IP protection degree	IP30	
Net weight	100g	160g
Protection functions	Solar panel short circuit and reverse-connection protection	
	Over-temperature, overload and short circuit protection	
Dimensions	103×71×36(mm)	130×75×38 (mm)