

SCH-20A 30A MPPT Solar Charge Controller



Feature

12V/24V Auto work, parallel design
 Multi-stage charging optimizes battery performance
 MPPT efficiency >99.5%, Peak conversion efficiency 97.5%
 Compatible with Gel, AGM, Flooded, Sealed lead acid and Lithium battery
 Comprehensive protection
 Heatsink cooling, quiet operation
 Comfortable installation and commissioning
 Monitoring your solar harvest on line via RS485 communication, Ethernet/RS232 communication Optional

12V/24V 系统适用，自动识别系统电压，可并联设计，可拓展系统容量。
 四段式充电，提高充电效率，提升电池组性能表现。
 MPPT 追踪效率可达99.5%，充电效率97.5%。
 适用于各种铅酸电池，胶体电池及最新科技的锂电池充电
 完善的保护功能，使控制器不易损坏
 散热器密封设计，提供安静的运行环境
 简易的安装连接方式，节省安装时间及步骤
 电脑监控软件可对各类参数进行设置，监控系统实时运行情况并进行数据存储

Introduction

At least 30% higher solar harvest for power compare with PWM controller
 Wide range Solar PV voltage input 18V~100Vdc
 LCD+LED display, you can see each second solar harvest status
 Excellent heatsink cooling design, will not derating power output in hot climate
 Plastic casing, Economic design to save customer cost
 Battery type and voltage can be set by LCD screen Easily

MPPT太阳能充电器发电效率比传统PWM太阳能充电器高30%以上
 宽电压输入范围，更方便你的太阳能板接线方式 18~100Vdc
 液晶屏跟LED 结合显示，可实时查看设置任何参数及运行状况
 工业级的散热设计，高功率输出高温不降载，可整天足功率输出
 塑料外壳设计，节省制造成本，使更多客户消费得起
 电池种类及电压通过显示屏简易可调可选

Data sheet

Feature	Model	SMK-SCH-20A-EL	SMK-SCH-30A-EL
Solar System Voltage		12V/24V Auto	
Electrical			
PV Operating Voltage		18~100Vdc@12V 35~100Vdc@24V	
MPPT voltage range			
Max. PV input power		12V 400W	12V 600W
		24V 800W	24V 1200W
Rated input current		20A	30A
Rated DC load current		30A	
Self consumption		2W	
Conversion Efficiency		97.5%	
Protection		PV array short circuit, over charging, battery reverse polarity, output short circuit	
Battery charging			
Battery Type		Sealed Gel AGM Flooded Lithium Battery	
Charge algorithm		3 stage: Bulk, Absorption, Float charging	
Bulk charge voltage		Sealed: 14.4V AGM 14.2V Gel: 14.2V Flooded: 14.6V User defined: 10-15V	
Float charge voltage		Sealed/Gel/AGM: 13.8V Flooded: 13.7V User defined: 10-15V	
Equalize charge voltage		Sealed 14.6V AGM: 14.8V Flooded: 14.9V	
Load disconnect voltage		10.5V ~ 12V Adjustable (10.5V ~ 12V)	
Low voltage reconnect voltage		12.5V	
Temperature compensation		5mV/°C/2V with BTS (5mV/°C/2V)	
Physical			
Net weight		1.4KG	1.6KG
Gross weight		1.8KG	1.9KG
Dimension		160*160*70mm	170*160*80mm
Cooling		Heatsink cooling	
Enclosure		IP20	
Environment			
Ambient operating temperature		-25°C~60°C	
Storage Temperature		-40°C~+80°C	
Humidity		100% non-condensing	
Warranty		Two Years	

Application Diagram

