

**PWM BASED SOLAR
CHARGE CONTROLLER**

12V / 25AMP TO 120V / 50AMP



**LCD DISPLAY FOR
EASY UPDATES**



**SMART AUTO-DETECT
BATTERY FUNCTION***



**CONVERT NORMAL INVERTER
TO SOLAR INVERTER**

Don't replace your current setup, upgrade it. The Smarten Savior is the ultimate bridging device, saving you from the high costs of buying a dedicated solar inverter when transitioning to clean energy.

How It Works:

Simply install Smarten's top-quality solar panels and link them to your existing UPS via the Smarten Savior.



The SAVIOR PWM Solar Charge Controller seamlessly transforms standard inverters into high-efficiency solar setups, offering broad compatibility with 12V to 120V systems and multiple battery types.

Operating at over 90% peak efficiency, it maximizes solar energy utilization.

It ensures long-lasting system protection and user convenience through world-class safety mechanisms, customizable battery discharge settings, and an intuitive real-time LCD display.

• This function available in 12-24V & 24-48V model.

TECHNICAL SPECIFICATION

MODELS	12V	12V-24V (Auto)		24-48V (Auto)		72V	96V	120V
		12V	24V	24V	48V			
Battery Type	LA / Tubular / SMF							
Technology	Digital Processor Based High Efficiency Design							
Max. PV Current Rating	25 AMP	70 AMP		70 AMP		50 AMP		
Max. PV Voltage Rating	25V	55V		55V	100V	150V	205V	230V
Max. Panel Wattage	500 Watt	1000 Watt @12V selection	2400 Watt@24 V selection	2400 Watt@24V selection	5000 Watt@48V selection	5000 Watt	6500 Watt	8500 Watt
Float Charging Voltage	13.7+ / -0.2V	13.7+ / -0.2V	27.4+ / -0.2V	27.4+ / -0.2V	54.8+ / -0.4V	82.2+ / -1V	109.6+ / -1V	137+ / -1V
Boost Charging Voltage For Tubular And SMF Battery	14.5+ / -0.2V	14.5+ / -0.2V	29+ / -0.2V	29+ / -0.2V	58+ / -0.4V	87+ / -1V	116+ / -1V	145+ / -1V
Boost Charging Voltage For LA Battery	14+ / -0.2V	14+ / -0.2V	28+ / -0.2V	28+ / -0.2V	56+ / -0.4V	84+ / -1V	112+ / -1V	140+ / -1V
Bulk / Absorption Voltage	14.8+ / -0.2V	14.8+ / -0.2V	29.6+ / -0.2V	29.6+ / -0.2V	59.2+ / -0.4V	88.8+ / -1V	118.4+ / -1V	148+ / -1V
Solar Charge Controller To PV Power Connection Time	< 15 Sec.							
Peak Efficiency	> 90%							
SCC Type	PWM (Pulse Width Modulation)							

PROTECTIONS

Reverse PV Protection	Provided
Reverse Current Flow to PV	Provided
High PV Voltage	Provided
Over Temperature	Provided (If heat sink temperature goes above 100°C, system will shut down)

DISPLAY PARAMETERS

Display Type	LCD Display
Display Messages	Welcome, Smarten Website Address, System Capacity
SCC Fault / Protection Status	Reverse PV / DC Load Overload / High PV voltage / High Temp.

ENVIRONMENT

Operating Temperature	0°C To 40°C
Storage Temperature	0°C To 50°C
Operating Relative Humidity	90% Non-Condensing



SCAN TO CONNECT
WITH GLOBAL SALES



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