Solar Charge Controllers



Provides optimal performance from your PV Panels & Batteries

KISAE Solar Charge Controllers provide maintenance-free protection for your batteries and solar panels in off-grid applications. These controllers provide a regulated output to prevent batteries from overcharging. Load disconnect protects batteries from being over-discharged. KISAE Charge Controllers have LED status indicators to provide a quick reference to Charger, Battery and Load status.

Product Features:

PWM Controller models capable up to 30 Amps of Array Current or up to 720 Watts of solar power.

MPPT Controller is capable to 50A/12V or 30A/24V charging current or up to 720 Watts of solar power.

Maintains batteries in a fully charged state.

Protects battery life from overcharging and discharging.

LED Digital Display shows charging and load currents and battery voltage (SC1230D and MPPT models).

2-Year Warranty



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Maintenance-free Battery Protection

SC1210LD, SC1220LD, SCD1230 - PWM Line

Commercial / Residential Off-Grid Use



PV Input

PV Input Voltage Range	14.5 - 24V	14.5 - 24V	14.5 - 48V
Maximum PV Input Current	10A	20A	30A
PV Solar Panel Rating (reference)	120W	240W	12V: 360W, 24V: 720W

Solar Controller Output (Battery)

Battery Rating	12V	12V	12V / 24V (Auto Detect)
Battery Type	Sealed / Flooded	Sealed / Flooded	Gel, AGM, Flooded, Lithium, Program
Max. Charge Current	10A	20A	30A
Charge Voltage Range	14.2 - 14.6V	14.2 - 14.6V	13.9 - 14.6V / 27.8 - 29.2V
Float Voltage Range	13.4 - 13.8V	13.4 - 13.8V	13.4 - 13.8V / 26.6 - 27.6V
Parasitic Current	< 10 mA	< 15 mA	< 25mA

DC Output to Load

Load Current (Maximum)	10A	20A	30A

Protection and Features

PV Reverse Polarity	Protected	Protected	Protected
Battery Overcharge	Yes	Yes	Yes
Load Over-Discharge Voltage	< 11.5V	< 11.5V	< 11.5V / 23.0V
Load Reconnected Voltage	12.6V	12.6V	12.6V / 25.2V
Built-in Temperature Sensor	Yes, temperature compensation on charging voltage	Yes, temperature compensation on charging voltage	Yes, temperature compensation on charging voltage

Indicator (SC Series) / Digital Display (SCD Series)

Indicators	Charging / Load Disconnect LED indicator	Charging / Load Disconnect LED indicator	Not Applicable
Battery Charging Status			Voltage / Current / Stage
DC Load Status	Not Applicable	Not Applicable	Load Current
DC Load Timer			Built-in clock for load ON/OFF

Enclosure

Weight	0.65 lbs.	0.65 lbs.	1.0 lbs.	
Dimension (H x W x D)	4.1 x 4.1 x 1.3"	4.1 x 4.1 x 1.3"	4.7 x 6.7 x 1.	.8"







