

12V 10A, 20A



# Solar Charge Controller

## Plug & Play Series



SC 1210  
SC 1210LD  
SC 1220LD

### 10 & 20 Amp Solar Charge Controller

Maintenance free protection for your batteries and solar panels

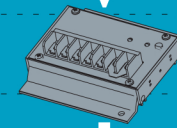
Regulated output to prevent batteries from overcharging

Load Disconnect (LD) version to protect batteries from being over discharged

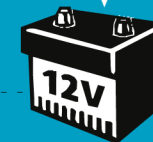
Solar panel



Charge Controller



12 Volt Battery



#### KISAE Charge Controller benefits include:

- Protects battery from overcharge and discharge
- For 12 Volt solar panels and batteries
- Handles up to 20 Amps of Array Current
- Handles up to 350 Watts of solar power
- Maintenance free protection of your solar panel and batteries
- Maintains battery voltage
- Maintains 12V batteries in a fully charged state

#### Product Features:

- 10 & 20 Amp Charge Controllers
- LED status indicator provides quick reference to Charger, Battery and load status
- Selectable battery type
- Temperature compensation
- High precise charging voltage setpoint
- Wall mountable
- Dimensions: (L x W x H)  
4.1 x 4.1 x 1.3 in.  
10.5 x 10.5 x 3.4 cm.
- Weight:  
0.65 lb, 0.3 kg
- 1 Year Warranty

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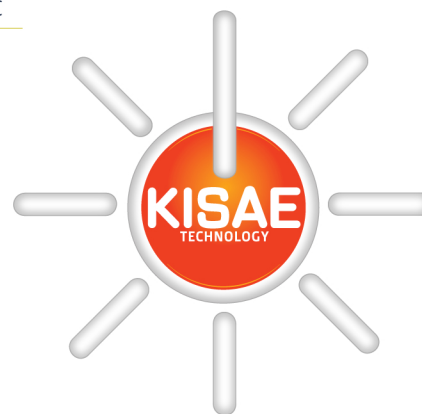
## Plug & Play Series

**SC 1210****SC 1210LD****SC 1220LD**

### Specifications

*subject to change without notice*

Solar Charge Controller	SC 1210	SC 1210LD	SC 1220LD
Battery voltage	12 Vdc	12 Vdc	12 Vdc
Max. PV panel open circuit voltage	26 Vdc	26 Vdc	26 Vdc
Maximum charge current	10A	10A	20A
Maximum load current	10A	10A	20A
Maximum load current	20A for 1 minute	20A for 1 minute	40A for 1 minute
Operational Current (no load & no PV)	<10mA	<10mA	<15mA
Regulated battery charging voltage			
Flooded Battery	14.6 Vdc	14.6 Vdc	14.6 Vdc
Sealed Battery	14.2 Vdc	14.2 Vdc	14.2 Vdc
Operational Current (no load & no PV)	<10mA	<10mA	<10mA
Voltage across terminal (PV to Battery)	<0.15 Vdc	<0.15 Vdc	<0.15 Vdc
Voltage across terminal (Battery to Load)	<0.05 Vdc	<0.10 Vdc	<0.10 Vdc
PV Reverse Polarity Protection	Yes	Yes	Yes
Battery Overcharge Protection			
Flooded Battery	14.6 Vdc	14.6 Vdc	14.6 Vdc
Sealed Battery	14.2 Vdc	14.2 Vdc	14.2 Vdc
Load Overdischarge Protection	N/A	<11.5 Vdc	<11.5 Vdc
Load Reconnected Voltage	N/A	12.6 Vdc	12.6 Vdc
Battery Chargers Stages		2-teps, Bulk, Float	
Recommended Wire Size	#12 AWG	#12 AWG	#10 AWG
Operating temperature	-40 C to 60 C	-40 C to 60 C	-40 C to 60 C



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