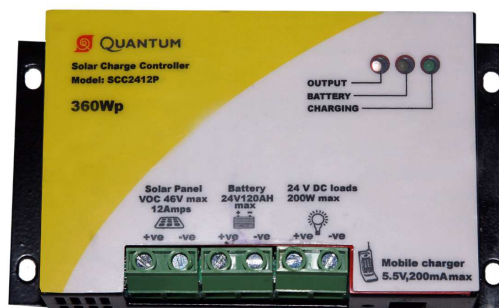


Suitable for high power LED lamps for home lighting, industrial lighting, security room lighting, remote monitoring systems, garden lighting, Common facility lighting

- Automatic boost cum float charge.
- Equalize charging every 30 days
- Dusk to dawn or Continuous output
- Mobile charger output.
- Dimming interface to LED driver optional
- High reliability- Advanced protection system.
- High Efficiency Zero Drop PWM control.
- Low Power loss in Night
- Negligible reverse leakage



(Product detailing may vary for different model)

#### TECHNICAL SPECIFICATION

S. No	Parameter	SCC1212P	SCC1220P	SCC2412P	SCC2420P
1.	Battery Voltage (Nom)	12V		24V	
2.	Max PV panel capacity W	180W	300W	360W	600W
3.	Max VOC of panel	23 V		46 V	
4.	Max No. of cells	30 / 36		60 / 72	
5.	Max Panel current Amps	12A	20A	12A	20A
6.	Max load switching	100W	180W	200W	360W
7.	Float level ( Constant Voltage)	13.8+/-0.1V		27.6+/- 0.1V	
8.	Boost level ( bulk charge/ Adsorption phase)	14.2+/-0.1V		28.4+/- 0.1V	
9.	Equalize charging ( 30 day cycle)	14.7+/-0.2V		29.4+/-0.2V	
10.	Load disconnect	10.8+/-0.1V		21.6+/- 0.1V	
11.	Load Reconnect	12.0+/-0.1V		24V +/-0.1V	

#### LED OPERATION

LED	Operation	Status
All LEDs	Flashing	Starting delay while installing
OUTPUT (Red)	ON	Output ON
	OFF	Output OFF
	Flashing	Overload
BATTERY (Yellow)	0.5 sec Flash	Battery Low warning
	0.1 sec fast flashing	Boost charging
	ON	Battery OK
CHARGING (Green)	Flashing	Charging (Speed increases with higher current)
	Momentary ON followed by 2 sec OFF	PV excess capacity/ PV Over Voltage
	ON steady	Full charge
	OFF	No Solar

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**GENERAL SPECIFICATIONS**

S. No	Parameter	Value
1.	Type of Photo Voltaic panel	Mono/ Polly crystalline
2.	Load control	Dusk to Dawn/ Continuous
3.	Charging method	Constant current- Constant voltage- Float
4.	Switching Technique	Zero Drop PWM
5.	Switching devices	MOSFET
6.	Temperature compensation	-4mV/ Cell / deg C
7.	Operating temperature	-5 to +40 Deg C
8.	Diming control for LED lamp	Optional subject to Lamp compatibility
9.	Battery Protection	Low & High voltage disconnect
10.	Voltage drop (charging)	< 0.15V
11.	Voltage drop (discharging)	< 0.15V
12.	Reverse polarity Protection for PV panel	Non destructive Electronic protection
13.	Reverse polarity Protection for Battery	Non destructive Electronic protection
14.	Short circuit & Overload protection (Load)	Non destructive Electronic protection
15.	Reverse leakage (night)	< 500uA
16.	Enclosure/ Cabinet	Power Coated MS (IP21 grade)
17.	Mobile charger output	5.5V, 200mA (SMPS based, Low loss)