

PPPSL-Solar Charge Controller



Advanced Features:

- Intelligent Maximum Power Point Tracking (MPPT) Technology – Ensures maximum solar energy harvest under all conditions.
- Built-in High-Performance DSP Controller – Enhances system reliability and control precision.
- Automatic Battery Voltage Detection (*Only for 600W and 3KW models*)– Simplifies installation and configuration.
- Battery Temperature Sensor (BTS) (*Only for 3KW model*) – Automatically adjusts charging parameters for improved battery life.
- Three-Stage Charging – Maximizes battery performance and longevity.
- Automatic Load Detection – Provides seamless load management.
- Multi-Functional LCD Display – Shows real-time system status and detailed operating data.
- Reverse Polarity Protection – Prevents damage due to incorrect connections of solar panel or battery.
- Overcharge and Overload Protection – Ensures system safety and battery protection.
- Compatible with Various Battery Types – Offers flexibility for different application needs.

MPPT Technology with DSP Controller for Maximum Efficiency

The SCC-MPPT solar charge controller combines advanced Maximum Power Point Tracking (MPPT) technology with a high-performance DSP controller, intelligently converting the best voltage to charge batteries under various temperature conditions. Unlike traditional charge controllers, SCC-MPPT enables your solar panels to operate at their optimal power output voltage, achieving up to 98% efficiency with minimal power loss. By integrating the SCC-MPPT with an inverter, solar panels, and external battery packs, you can create a complete standalone solar power system. This system effectively converts solar energy to charge external batteries, and the inverter subsequently powers your home appliances with clean, green energy.

PERPETUAL POWER SERVICES PRIVATE LIMITED

H.O:121/6, Sathanur, Main Road, Sathanur, Near Country Club, Bangalore-562149,
R.O: Plot 40/102,L.G.F C.R Park, New Delhi-110019, email:ajeet@perpetualpowerups.com
www.perpetualpowerups.com, Mob:+91-9845271112. Central Service Desk –Toll free #18005691663

MODEL	SCC-MPPT 300W	SCC-MPPT 600W		SCC-MPPT 850W	SCC-MPPT 3KW		
INPUT							
MPPT Range @Operating Voltage	15VDC~37VDC	15VDC~33VDC	30VDC~66VDC	45VDC~88VDC	60VDC ~ 115 VDC		
Maximum PV Array Open Circuit Voltage	50VDC	50VDC	75VDC	98VDC	145VDC		
Maximum PV Array Power	300W	300W	600W	850W	800W	1600W	3200W
Maximum Current	18A			17A	50A		
OUTPUT							
Nomina lBattery Voltage	12VDC	12VDC	24VDC	36VDC	12VDC	24VDC	48VDC
Connected Battery Type	Sealed lead acid,vented,Gel,NiCd battery				Sealedleadacid,AGMorGel		
Maximum Charging Current	25A			20A	60A		
Maximum Efficiency	98%						
Charging Method	Threestages:bulk,absorption,andfloating						
PROTECTION							
OverloadProtection	>110%: audiblealarm						
OverchargeProtection	Yes						
Polarity Reversal Protection @Solar Cell & Battery	Yes						
INDICATORS							
LCDPanel	LCDpanelindicatingsolarpower,loadlevel,batteryvoltage/capacity,chargingcurrent,andfaultconditions						
LEDDisplay	Threeindicatorsforsolar,charging,andloadstatus						
PHYSICAL							
Dimension,DxWxH(mm)	135x170x57.5	220x170x57.5			315x165x128		
NetWeight(Kgs)	0.92	1.85			4.5		
IP Protection	IP 43				IP 31		
ENVIRONMENT							
Humidity	0~100%RH(Non-condensing)				5~95%RH(Non-condensing)		
Operating Temperature	-20°Cto55°C				0°Cto55°C		
Storage Temperature	-40°Cto75°C				-15°Cto60°C		
Altitude	0~3000m						

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