



McSSL120

**MPPT BASED
SOLAR STREET LIGHT**

- User Selectable wattage: 60W/80W/100W/120W
- User Selectable battery type: LiFePO4/SMF or Li Ion
- User Selectable Dimming options: 4 different types of dimming mode
- Includes Unique Battery Saver mode
- Solar Panel support: 24V/400Wp
- High Power LEDs of 5W driven upto 3W for longer life
- Light luminescence : 190 Lm/W
- Total LED power capacity: 180W
- Upto 23% more Lux. More light in lesser wattage resulting in power saving, more efficient
- MPPT Based Charge Controller to extract more power from Solar Panel
- IEC 62093 Certified Charge Controller

Charge Controller compartment

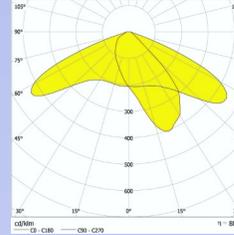
Yellow+, Grey- to connect to battery

Red+, Black- to connect to solar panel

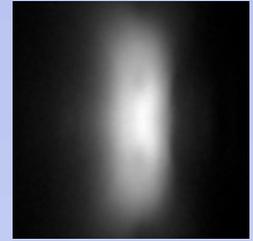
High Power 5W LED
Designed for outdoor use.
190 lm/w



Crystal clear PC lens.
Maximises light along pathway.
Soft wide beam with good illuminance uniformity.
UV protected.
Glare free.



Beam Angle



Beam Pattern Along pathway

Battery Low Indicator

Charging Indicator

| | | | |
|---|---|-----------------|--------------|
| SYSTEM: | 24V Nominal | | |
| CAPACITY: | Input Panel 400Wp/24V, 12Amax | | |
| | Output 60W, 80W, 100W, 120W, | | |
| REGULATION: | MPPT | | |
| | BATTERY TYPE | | |
| BATTERY OPERATION (Based on customisation) | Lead Acid 24V | Li Ion 22.2V | LFP 25.6V |
| LOW VOLTAGE DISCONNECT: | 21.5V | 19V | 22.5V |
| LOW VOLTAGE RECONNECT: | 24.5V | 22.5V | 26V |
| HIGH VOLTAGE DISCONNECT: | 28.5V | 25.5V | 29V |
| HIGH VOLTAGE RECONNECT: | 28V | 25V | 27.5V |
| HIGH VOLTAGE PROTECTION: | 30V | 26.5V | 30V |
| DUSK_SENSE | Panel Voltage < 8V | | |
| DAWN_SENSE | Panel Voltage > 10V, 10 sec delay | | |
| PROTECTIONS: | *Short Circuit / Overload *Reverse Battery *Reverse Solar Panel *Reverse flow of current from Battery to Panel during night *Lightening | | |
| Electronic shutdown | If load>7A, load off and checks after 5 seconds automatically | | |
| OPERATING TEMP RANGE; | 0 to 60 C | | |

CHARGING: Green LED.

Turns on when panel voltage is more than battery voltage to indicate positive charging. It starts blinking when battery is charged.

BAT STATUS : RED LED.

- ➡ Turns ON when battery reaches LVD and disconnects the load.(**BAT LOW**)
- ➡ RED blinks if battery voltage is between LVD and LVR (**BAT RESERVE**)
- ➡ Turns OFF when battery is HEALTHY (between LVR and HVD)
- ➡ RED blinks fast when battery >HVDD or over load. Load is disconnected. Operation disabled.

CUSTOMISATION

MODE SELECTION

NML
TM1
TM2



No Link Battery Saver Mode. For selected load, brightness is automatically adjusted between 100% and 30% depending upon the battery capacity available .



NML. 100% light right from dusk to dawn.

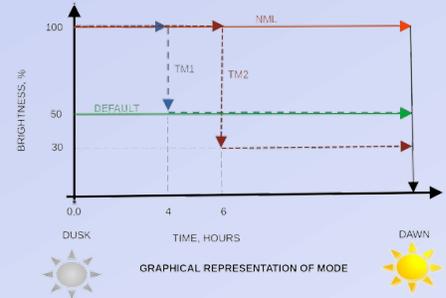


TM1 100% light for first 4 hours. Then 50% light till dawn.



TM2. 100% light for first 6 hours. Then 30% light till dawn.

MODE



LOAD SELECTION

100
120
60



No Link 80W



Wattage selected is 100W.

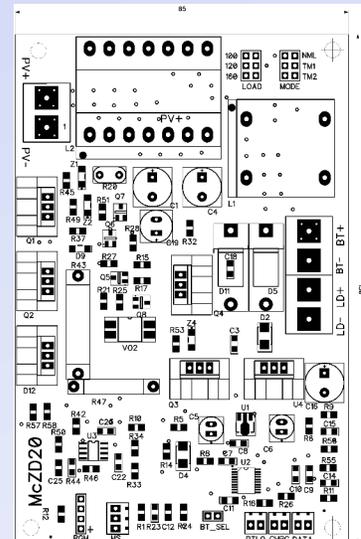


Wattage selected is 120W



Wattage selected is 60W.

LOAD



Please note
USING MORE THAN ONE LINK AT LOAD / MODE SELECT
MAY RESULT IN UNPREDICTABLE OPERATION.

BAT_SEL (battery selection)

Please see that battery selection is done before you proceed for other connections. Else it will result in erroneous operation of the controller.



With Link, 22.2V, Li_Ion



No Link, 25.6V LiFePO4 battery .

BAT_SEL



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