

# SMC

## User Guide 2017

**The Sollatek SMC is an Automatic VOLTAGE SWITCHER rated at 20Amps. The SMC will switch off the output (and load connected to it) if the mains power goes outside pre-set acceptable limits.**

The SMC will automatically reconnect the mains power to the load when the supply voltage returns to normal after a pre-set delay.

The voltage and delay settings of the SMC can be changed using the Sollatek programmer SPP01 (purchased separately).



Five LEDs accurately display the status of the SMC in the following symmetrical traffic light design:



LED Colour	Indicating	Load Status
Red	High incoming voltage	OFF
Yellow	AVS is in wait state after a high voltage transition	OFF
Green	Mains normal	ON
Yellow	AVS is in wait state after a low voltage transition	OFF
Red	Low incoming voltage	OFF

### FEATURES

- Frequency error range detection 35-75 Hz
- Operating voltage 90V to 300V
- Low voltage protection (LVD) Range 50V to 300V
- High voltage protection (HVD) Range 50V to 300V
- TimeSave™ function (Intelligent time delay)
- AVS™ function (Automatic Voltage Switcher)
- Programmable startup delay (0-1000hr range)
- Output 20A

- Operation status indication, up to 5 LEDs
- All variables are programmable through a proprietary Sollatek programming key
- Supplied with standard settings. The following settings can be altered using the optional Sollatek Product programmer (SPP):
  - Under voltage
  - Over voltage
  - Delay on start up

### OPERATION

1. Make sure that your load does not exceed the rating of the SMC which is 20Amps.
2. The default SMC limits are set for a window of 185-260 volts.
3. The SMC has to be wired to the mains supply and to the equipment it is supplying.
4. On first switching on, there will be no output for the wait time of approximately 200 seconds while the SMC monitors the mains.
5. It is recommended that the SMC is kept switched on, and the appliance switched on and off to prevent activating the time delay every time the appliance is switched on.

**SPECIFICATIONS**

Model	SMC 20A
Description	All options included
Under voltage (LVD) Volts	185 (90-300)
Oversvoltage (HVD) Volts	260 (90-300)
Type of delay time	intelligent
Start-up delay	200s (0-1000hr+)
Frequency Error	45/55 (35/75)
<b>Further data</b>	
Output	20A Switched Live
<b>Indication of operational status</b>	
LED Red (High)	Yes
LED Yellow (High)	Yes
LED Green	Yes
LED Yellow (Low)	Yes
LED Red (Low)	Yes

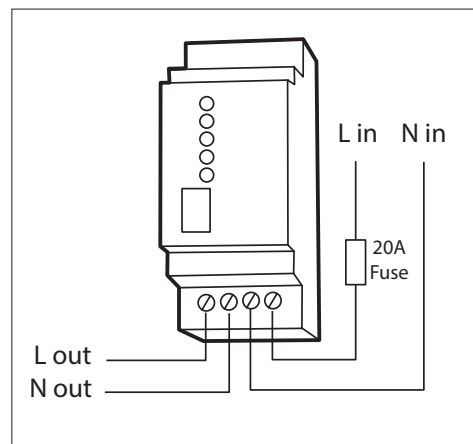
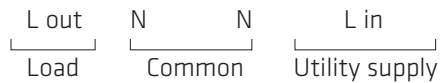
\*High Voltage Disconnect  
 † Low Voltage Disconnect

**CONNECTION**

PLEASE ENSURE NOT TO TIGHTEN CONNECTION TERMINALS EXCESSIVELY.

1. The SMC must be mounted securely on a wall. Place it over one screw at the top and then use the two mounting holes in the terminal compartment.
2. The supply to the SMC must be fitted with a 20A HBC fuse or less.
3. The SMC is to be DIN Rail mounted
4. The SMC is to be installed in an enclosure with minimum IP21 protection

**CONNECTIONS TERMINAL LAYOUT**



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**ISO9001: 2008 accredited company**

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