

## SunPower 90T

# SOLLATEK SOLAR POWER CHARGE CONTROLLER

### Model :

SunPower 90T

### Applications:

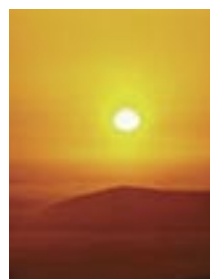
- Medium and large sized power systems.
- Unattended telecom relay stations.
- Mobile phone network base stations.
- Bill Boards.

### Features:

- Three stage charging (bulk , float and equalise).
- -48V for Telecom systems.
- Reverse polarity protected.
- Lightning protected.
- Open circuit protection.
- Over load protection.
- Short circuit protection.
- LVD to protect battery from excess discharge.
- HVD to protect battery for excess charge.
- Adjustable voltage thresholds.
- Low power consumption and minimal volt drop.
- Solid state PWM float charging.
- 4-wire battery volt sense.
- Suitable for flooded, stationary, maintenance -free and gel battery types.
- Fully automatic operation.
- Temperature compensated battery charging with optional external probe.
- Switch for LVD break/reset/test.
- Day/Night timer.
- Status indication by five LEDs.
- Battery low and battery disconnect alarm outputs.
- Digital LCD displays of voltage and current.
- Microprocessor controlled.
- High efficiency diode-less discharge protection.
- Tough metal enclosure for harsh environments.
- Warranty of 2 years. Sollatek provides full back up support on all its products, with local support in over twenty countries worldwide.



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## Specifications

System voltage	: -48V nominal (positive earthing)
Solar current	: 90A ,30A DC max x 3 inputs
Load current	: 60A DC max
Max array power	: 6.1kWp
Max load power	: >2.9kW
LVD range	: 40 to 48V
LV hysteresis range	: 2 to 4V
HVD range	: 52 to 60V
HV hysteresis range	: 2 to 4V
Max current consumption	: 40mA (<2W)
Efficiency	: 99% at full load, >98% at 10% load
Temperature compensation	: -3mV per °C, with optional external probe
Day/night timer	: Dusk to dawn, or 2 to 10 Hours, or 'normal'
LED indications	: Sun, Full, Good, Low, Off. Indicate system function and status
Voltage display	: 3½ digit LCD display indicating solar, battery and load voltages
Current display	: 3½ digit LCD display indicating solar, battery and load currents
Alarms	: 2 off volt-free c/o contacts for "Battery low" and "Battery disconnected"
Spike and surge protection	: MOV surge arrestors fitted on all external connections
Overload and short circuit protection	: Solar 30A fuse x3, load 30A fuse
Power connections	: 6x solar, 2x battery, 2x load, via cable glands in base of unit
Signal connections	: 2x external voltage sense, 2x external temperature sense, x6 alarm
Connection type	: Screw terminal
Max wire gauge	: 16 sq. mm (power), 2.5 sq. mm (signal)
Enclosure rating	: IP54
Operating temperature	: 0 to +70°C
Relative humidity	: 0 to 95%
Altitude	: 0 to 3000m
Dimensions	: 300 x 250 x 150mm (H x W x D)
Weight	: 6kg
Standards	: ISO9001:2000, CE BS EN 60335



## Other Sollatek Solar Power Charge Controllers

