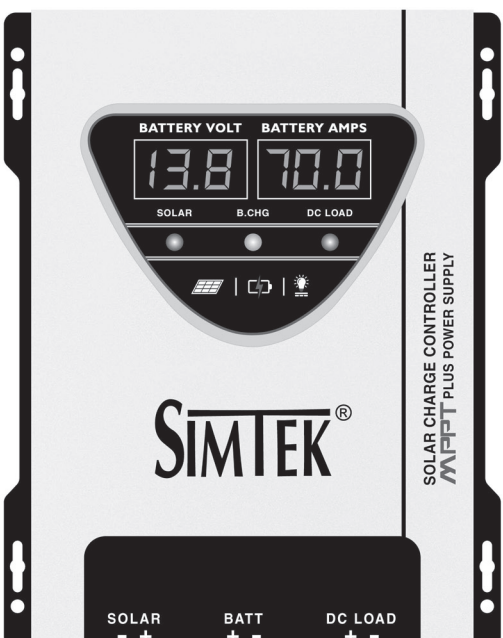
SIMTEK® POWER SERVICES

RENEWABLE ENERGY | ENERGY CONSERVATION
UPS \ INVERTERS | BATTERY CHARGERS

USER'S MANUAL

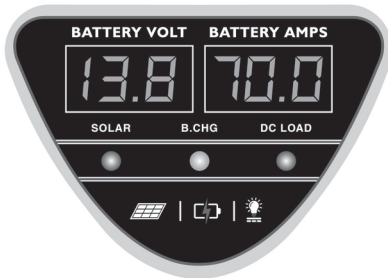
MPPT SOLAR CHARGE CONTROLLER



MODEL #: ECO-1224K27 12V \ 24V 70A 110V

WORKS WITH AND WITHOUT BATTERY

DISPLAY



7 SEGMENT DISPLAY

DISPLAY SHOWS ALL THE OUTPUT PARAMETERS.

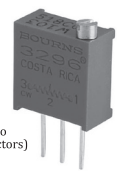
- BATTERY VOLTAGE.
- BATTERY CHARGING CURRENT.

LED DISPLAY

1. YELLOW LED INDICATES SOLAR POWER IS AVAILABLE.
2. GREEN LED BLINKING INDICATES BATTERY IS CHARGING.
3. YELLOW LED INDICATES DC LOAD OUTPUT IS AVAILABLE.

FEATURES

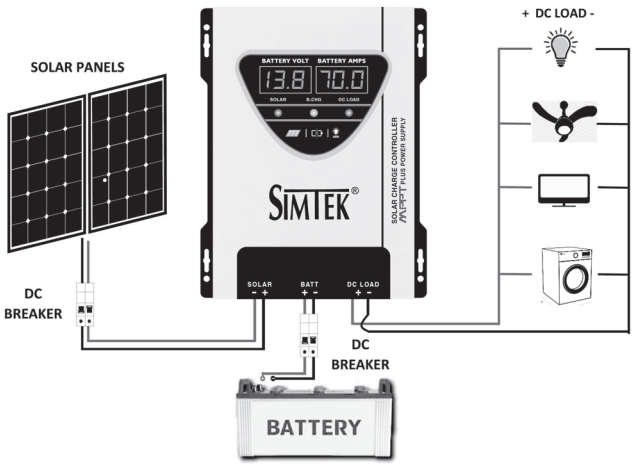
- DUAL DISPLAY
  - 7 SEGMENT DISPLAY
  - LED INDICATIONS
- OVER HEAT PROTECTION.
- TEMPERATURE CONTROLLING THROUGH AUTO COOLING FAN.
- LOW BATTERY VOLTAGE CUTOFF PREVENTS BATTERY FROM DEEP DISCHARGE.<10.0V
- COMPATIBLE WITH ALL TYPE OF SOLAR PANELS.



(Adjacent to Battery Connectors)

- WHEN INSTALLING THE UNIT, FIRST CONNECT SOLAR,
- THEN ADJUST OUTPUT VOLTAGE / BATTERY FULL VOLTAGE THROUGH VARIABLE THEN CONNECT BATTERY.

BLOCK DIAGRAM



PV MODULE SELECTION

WHEN SELECTING PV MODULES, PLEASE BE SURE TO CONSIDER BELOW PARAMETERS

1. OPEN CIRCUIT VOLTAGE (VOC) OF PV MODULES NOT EXCEEDS MAX. PV ARRAY OPEN CIRCUIT VOLTAGE OF MPPT.
2. OPEN CIRCUIT VOLTAGE (VOC) OF PV MODULES SHOULD BE HIGHER THAN MIN. START VOLTAGE.

PV INPUT VOLTAGE RANGE

FOR 12V SYSTEM 30V – 110V

FOR 24V SYSTEM 60V – 110V

WARRANTY CARD **6 MONTH'S REPAIR WARRANTY**

MODEL #: ECO-1224K27

DATE OF PURCHASE: _____

WARRANTY VALID UPTO: _____

CUSTOMER INFORMATION: _____

_____

_____

WARRANTY TERMS & CONDITIONS

WARRANTY IS AGAINST MANUFACTURING DEFECT. ANY DEFECTIVE PRODUCT WILL BE REPAIRED FREE OF COST WITHIN THE PERIOD OF WARRANTY SUBJECT TO FOLLOWING CONDITIONS.

1. PRODUCT WARRANTY CARD MUST BE FILLED, STAMPED & SIGNED BY SELLER.
2. THE WARRANTY IS NOT VALID FOR CLAIM RESULTING FROM ACCIDENT\MISHANDLING\DURING TRANSPORTAION\BURNED\WRONG INSTALLATION DONE BY UNQUALIFIED INSTALLER.
3. NO WARRANTY WILL BE CLAIMED IF UNIT IS OPENED BY UNAUTHORIZED PERSON OR IF UNIT WARRANTY SEAL IS BROKEN.
4. WARRANTY IS VOID IF SOLAR AND BATTERY ARE CONNECTED IN REVERSE / WRONG POLARITY.
5. WARRANTY IS VOID IF CHARGE CONTROLLER IS CONNECTED TO HIGH VOLTAGES. (MORE THEN RATED PV INPUT VOLTAGES)

WHEN ANY FAULT OCCURS TO THE PRODUCT, PLEASE CONTACT COMPANY HELP LINE \ DEALER FOR REPAIR.

DEALER'S STAMP

BRAND OF THE YEAR AWARDS 2022

WHERE THE QUALITY QUALIFIES SIMTEK

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