

Model:

MTK1012 SMU ☐

MTK3012 SMU ☐

MTK3024 SMU ☐

MTK6012 SMU ☐

MTK6024 SMU ☐

In case of any Service requirement kindly contact Microtek Customer Care, specifying following details:

- (i) Model Number & Serial Number of the Product.
(ii) Name & phone no. of the contact person with full address & e-mail ID if any.
(iii) Reported problem/description of the complaint.

Note: (a) Refer all servicing queries to Microtek Customer Care only.

(b) Please take care that Serial Number is kept intact and that the product is not allowed to be fiddled (opened) by any unauthorised person; otherwise the warranty will be void.

MICROTEK CUSTOMER CARE: ALL INDIA: 7283838383

KARNATAKA: 080-61769999 **TAMILNADU:** 044-42069111 **KERALA:** 0484-2344351

WEST BENGAL: 033-22349135 **ANDHRA PRADESH & TELANGANA:** 040-66414444

WHATSAPP: 08800255733 **E-mail:** cc@microtekdirect.com

*All disputes subject to Delhi jurisdiction only.

SERIAL NO.



MICROTEK INTERNATIONAL P. LTD.
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Form No.: QPN/003-202
Issue No.: 07, 17/05/2019 (PART CODE: 902-416-6024)

002-237-SMU (SOLAR MANAGEMENT UNIT) ALL V.6

SOLAR POWER FOR EXTERNAL BATTERY UPS / INVERTER...



www.microtekdirect.com

PWM SOLAR MANAGEMENT UNIT

MICROTEK's, micro-controller based high-efficiency SMU (Solar Management Unit) is best suited for low-power solar applications. The micro-controller in Microtek Solar Management Unit, senses the battery full-charge voltage and It cuts off the battery from charging, when it reaches full charge status. It reconnects the battery if the battery charge drops to a preset level.

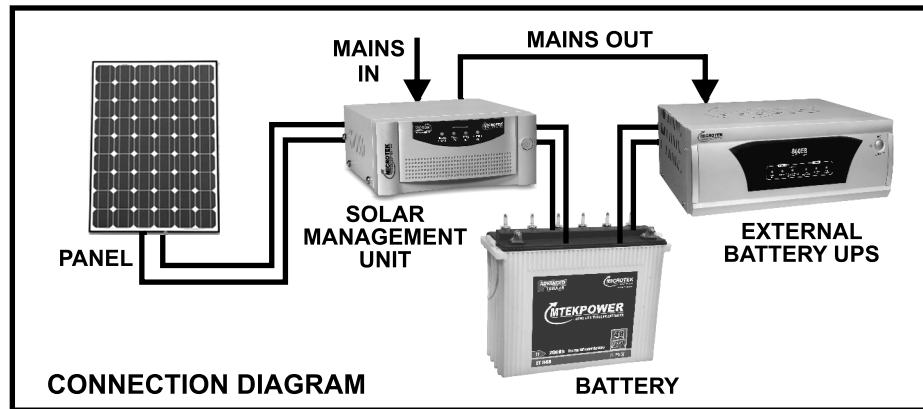
Microtek SMU also disconnects the solar panel from the battery to avoid the reverse current flow from the battery to Panel during night. This product has been specially designed to upgrade any conventional Ext. Battery UPS / Inverter in to Solar Ext. Battery UPS / Inverter with setting of first priority given to Solar while Charging. The charger has been programmed to connect and disconnect the AC mains to the Ext. Battery UPS / Inverter depending upon the battery voltage levels to ensure use of solar as primary power and mains only for the emergency.

MODEL NO.	MTK1012 SMU	MTK3012 SMU	MTK3024 SMU	MTK6012 SMU	MTK6024 SMU
Max. Solar open circuit voltage(VOC)	22V	22V	42V	22V	42V
Max. Solar Panel Capacity	120Wp	360Wp	720Wp	720Wp	1440Wp
Max. Battery charging current	10A	30A	30A	60A	60A
Peak Charger Efficiency	99%	99%	99%	99%	99%
System Voltage(V)	12VDC	12VDC	24VDC	12VDC	24VDC
Battery Full Voltage (solar charging)	14.7±0.4V	14.7±0.4V	29.4±0.8V	14.7±0.8V	30.0±0.8V
Battery Voltage (mains disconnect)	14.7±0.4V	14.7±0.4V	29.4±0.8V	14.7±0.8V	30.0±0.8V
Battery Voltage (mains reconnect)	11.6±0.4V	11.6±0.4V	23.1±0.8V	11.6±0.8V	23.8±0.8V
Recommended Battery Capacity*	1x150AH	1x200AH	2x200AH	1x400AH	2x400AH
LED Indications : Solar Charging, Panel Reverse, Battery Reverse, Output ON					
Connections : Terminal Block: for Solar Panel & Battery Connections. Mains In: 1mm ² Power Cord with 16A molded Plug. Mains Out: 15A Power Outlet.					
Front Panel Switch : Normal: Default position, Solar Charging & mains control. BYPASS: Solar Charging & Mains Bypass.				One Year Warranty	

*Suitable upto defined AH with different Series/Parallel combination of batteries as per product design(12V/24V).

INSTALLATION

NOW CHARGE BATTERY INSTALLED WITH EXISTING / NEW EXT. BATTERY UPS / INVERTER with ZERO COST SOLAR POWER...



- * Make the connections as shown in the above diagram.
- * **IMPORTANT:** Panel & Battery connections must be connected with correct polarity.
- * Keep the front panel switch in 'NORMAL' position.
- * **ENSURE** Battery/Battery Bank Voltage are as recommended.

CAUTION

- * Wrong connections to panel or to the battery may damage the unit.
- * Open circuit voltage or panel capacity exceeding the limit will damage the unit.
- * Don't use battery of different types/make while making parallel or series combination.