



### Technical Specifications:

- Solar Cell Base:1. Solar Cell Modules a. 4 pcs of monocrystalline silicon solar cell (6x12)cm b.
- Each unit solar cell consists of: --Open circuit voltage (Voc): 0.55V --Short circuit current (Isc) : 2.3A --Max. Load voltage (Vpm) : 0.5V --Max. Load current (Ipm) : 2.2A --Max. Power (Ppm) : 1.1W --Efficiency (Eff): 15%2. Dimmer --Adjust the brightness of halogen lamp: Input voltage-110V AC or 220V AC, Output voltage-12V3. Light Source-- Halogen lamp: 12V/50W --Beam angle: 60Solar
- Cell Module:1. Digital Multimeter x 2 (a) DC voltage: --400mV, 4V, 40V, auto range --Input resistance  $\geq 10M$  (b) AC voltage: --400mV, 4V, 40V, auto range --input resistance  $\geq 10M\Omega$  (c) DC current: --400 $\mu$ A, 400mA, 10A, push button selector switch --10A range: 10A fuse protected --mA/ $\mu$ A ranges: 0.5A fuse protected (d) AC current:-- 400 $\mu$ A, 400mA, 10A, push button selector switch --10A range: 250V/10A fuse protected --mA/ $\mu$ A ranges: 250V/0.5A fuse protected (e) Resistance: 400 $\Omega$ , 4K , 40K , 400K 4M , 40M , auto range (f) Diode test: 0~1.5V (g) Continuity: buzzer for the measured resistance < 30 (h) Display: 3  $\frac{3}{4}$  digit LCD,
- Max. indication 3999 2. Energy Storage a. NiMH rechargeable battery: 1.2V/80mAh b.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Super capacitor: 10F/2.7V 3. Load DC motor: 0.5V~6V,10mA b. Light bulb: 1.1V, 300mA c. Potentiometer: 100Ω, 10-turn4.

- Inverter--Input voltage: 2V DC --Output: Modified sine wave: 1Vpp 50 /60Hz, Square wave: 2Vpp 50Hz/60Hz The solar panel and storage battery is connected to a digital charge controller, which is designed with data acquisition and software monitoring function that allows the output from the solar panel and battery state to be investigated, as well as controlling the output load.

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