

# MG POWER

The Solar Lantern is Omni Directional and at the same time it is Portable. Thus it facilitates the user's requirements. The light is fluorescent bright resulting into less stress for the eyes. The solar lantern is maintenance free resulting into least after sales servicing expenses on the part of the customer. This system is very much reliable and its quality is approved by the Government bodies such as MNRE (Ministry of New & Renewable Energys) a record by selling more than 1, 00,000 lanterns till date in India & Abroad in last five years.



- Non polluting, inexhaustible energy from the Sun
- Omni-directional pure white light
- Safe and easy to operate
- Excellent protections and indications
- Approved by MNRE specifications
- Rugged and attractive body made of ABS plastic
- UV stabilised acrylic light diffuser
- Micro-controller based Electronic Circuit
- 12V DC outlet available
- Single switch operation
- Very low footprint area

**TECHNICAL SPECIFICATION**

<b>Models</b>	<b>Mini Gold 3W</b>	<b>Mini Star 5W</b>
<b>General</b>		
Solar PV Module	6V-3W	6V-5W
Battery	6V, 4.5AH VRLA (SMF) Lead Acid	
Application	Portable emergency indoor light source	
Lamp Type	Compact Fluorescent Lamp (CFL), 4 Pin, Single U	
Lamp Wattage	5W	5W
Rated light output (Lumens)	250 ± 5%	250 ± 5%
Light coverage	360 Deg	
Daily hours of operation	3 - 4 Hrs	2 - 3 Hrs
Number of days of autonomy	2 Days	
<b>Electrical</b>		
Inverter type	Quasi Sine wave, free running	
Inverter frequency	24-28 kHz	
Inverter efficiency	> 82%	
Charging method	Series pulsed two step	
Indications	Charging and low battery	
Reverse polarity protection	Provided with glass cartridge fuse	
<b>Mechanical</b>		
Lamp fixing	CF Lamp in base up / base down configuration	
Case	Injection Moulded Engineering Plastic (ABS)	
Light diffuser	UV stabilised, Non yellowing Acrylic	

Models	Star Light 5W	Star Deep 7W	Super Star 7W
<b>General</b>			
Application	Portable indoor light source		
Lamp Type	Compact Fluorescent Lamp (CFL), 4 Pin, Single U		
Lamp Wattage	5W	7W	7W
Rated light output (Lumens)	250 ± 5%	400 ± 5%	400 ± 5%
Light coverage	360 Deg		
Battery	SMF 2*6V-4.5Ah	12V-7.5Ah	12V-7.5Ah
<b>Electrical</b>			
Inverter type	Quasi Sine wave, with dimming, Micro-controller based		
Inverter frequency & Crest Factor	38 kHz ± 2%; Crest Factor <1.6		
Inverter efficiency	> 85%		
Idle current consumption	< 0.55mA		
Charging method	Series, PWM, Two step		
Solar charge controller rating	1.5A Max. (Upto 18Wp SPV Module)		
Temperature Compensation	-3.5 to 4.5 mV/°C/cell		
Indications	Charging, low battery and Low battery warning		
Reverse polarity protection	Provided with glass cartridge fuse		
DC output rating	12V, 1.5A (Max)		
<b>Mechanical</b>			
Lamp fixing	CF Lamp in base up configuration when hanging CFL in base down configuration when placed on table		
Case	Injection moulded engineering plastic (ABS)		
Light diffuser	UV stabilised, Non yellowing acrylic		
SPV Module	12V-5W	12V-8W	12V-10W
<i>Note: Specifications subject to change without notice. Check for latest update</i>			



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