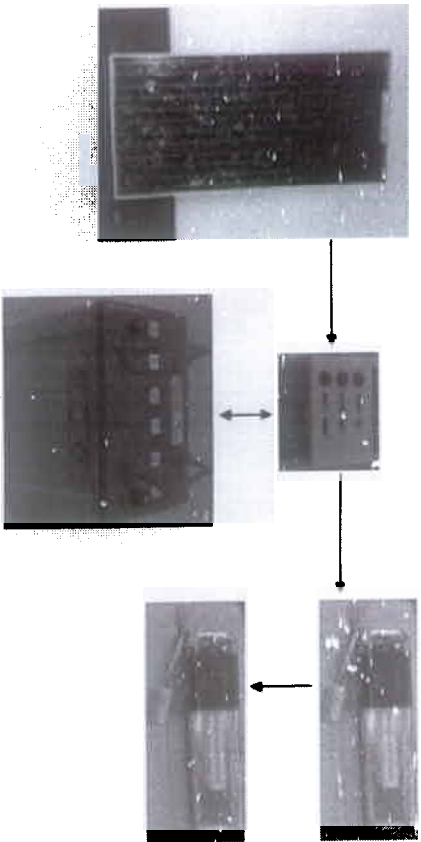




# TATA BP SOLAR INDIA LIMITED

## PRODUCT SPECIFICATION

### VENUS - 35 INDOOR LIGHTING SYSTEM



#### WORKING PRINCIPLE:

The Solar Module charges the battery during day time, will charge the flooded thick plate battery. The two 9W CFL luminaires can be used daily for 4 hours a day any time as required.

#### SOLAR MODULE:

Reliable and high efficiency mono/multicrystalline solar module supplied with the lantern:

Nominal Peak Power	: 35 Wp at STC
Peak Charging Voltage	: 17V (typical)
Peak Charging Current	: 2A (typical)

#### BATTERY:

Type	: Flooded, Thick plate battery
Capacity	: 40Ah, 12V battery
Life	: 2 – 3 years
Maintenance	: Once in 3 months top up

#### LUMINAIRE:

Unique and ergonomically designed luminaire with the following features:

- LAMP : PL9 - 9W CFL
- Light output : 600 Lumens nominal
- Polarised Plug-in connectors for easy installation and maintenance with fool proof connection to prevent reverse connection
- Preheating provided for best lamp life

#### MCR:

Compact and efficiency solar charge controller:

- Charging : Up to 80Wp module
- Load : 10A
- Protects battery against over charge and deep discharge
- Reverse polarity, Over load / short circuit protection provided by inline cable fuse holder with battery cable
- Indications of Battery high to indicate the battery is nearing complete charge, load ON and Load OFF (for battery low) indications provided.

#### Features:

- Cost effective, optimum sized system
- Good reliable electronics
- Conformal coating provided for PCB assemblies to operate reliably under high humid conditions like coastal region.
- Spare fuses supplied with the system
- Supplied with complete set of module mounting structure, cables and accessories.
- Operating Temperature : 0 to 50 deg C

PREPARED : *[Signature]*

CHECKED : *[Signature]*

APPROVED : *[Signature]*

DATE : 29.3.04

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