

#### PRELIMINARY INFORMATION-SEARCH-FURTHER-YOURSELF:

(A) Off Grid Solar Battery Inverter DOMESTIC (4 no. Batteries i.e. 4x12volt In Series Connection = 48volts, 150AH-200AH, each battery 12 volt Solar Tall Tubular):

Mono PERC Panel: Jinko Solar/Waaree/UTL solar: 32cell/36cell/60cell/72cell VOC.

Two-Variations:

1. Luminous External MPPT Charge Controller  
48Volt/50Ampere-VOC range--Along with--3Kilowatt/(3750VA(80%efficiency)-4000VA(75%efficiency) Already Existing At Home Normal Inverter)--OR--
2. 3Kilowatt Luminous Solar Inverter NXT+ MPPT 3750VA-PCU-VOC range, PCU has built-in MPPT.

[Panel Stand Alone VOC / Panels In Series VOC < Charge Controller VOC range / PCU Solar Inverter VOC range]

MC4 connector IP68 / Panel Junction Box

GI/MS Panel Structure

DC DB- MCB / Battery Charge Meter / dc SPD / DC Earthing

AC DB- Grid MCB / Inverter Output MCB / Inverter Output Unit Meter Digital Display / ac SPD when Grid On / AC Earthing- Also Same For Inverter Body

DC wire- 10mm square Panel Charge Controller / 10mm square Charge Controller Battery / 16mm square Battery Inverter

AC wire- 6mm square Inverter AC DB

Lightening Arrester (LA) (Protection Radius)

Separate 3 meter Deep Earthing AC & DC & LA- Copper Electrodes- Chemical Compound- 3mm Thick- Strips- With Saddle

Chemical Compound Types: 1. Backfill Compound (Rocksalt + Charcoal + Anticorrosion mixture) BLACK color for Normal areas 2. Backfill Compound (Clay + Bentonite + Charcoal + Rocksalt) BROWN color for Desert Areas.

Separate / Existing For AC Earthing

(B) Grid Tie / Bidirectional / Net Metering Solar Inverter DOMESTIC + INCOME from Grid (Batteries not required):  
Luminous Company Grid Tie Inverter 7500VA/6.0KW & Secure Company Meter For Reading.

Note X: 3 Kilowatt Grid Tie Solar Inverter --or-- 3 kilowatt MPPT Solar Inverter PCU will get you 40% Govt. subsidy on 3KW-solar-panels or less than 3KW-solar-panels. (Check)

Note Y: 6 Kilowatt Solar Panels will get you 20% Govt. subsidy on 6KW-solar-panels. (Check)

Note Z: MPPT is better than PWM efficiency wise.

#### MINIMAL-SETUP-STANDALONE-TOP-SELLER:

Luminous [MODEL: Solar Home UPS NXG+ 1400VA (PWM based)],

150-200AH: 12Volt Single Solar Tall Tubular Battery

The Inverter Supports up to 1000 Watts of solar Panels. It is suitable for running up to 720 watts of AC load during power cuts.

- Savings of 25-30% on electricity bills by reducing charging time with the help of Intelligent Logic Control

- Power savings of 1.5 - 3 units per day\* with the help of Intelligent Solar Optimization Technique (iSOT).

- In this, NXG+ Solar UPS uses Intelligent Solar Optimization Technique (ISOT). Once the batteries get charged, it cuts off grid power and supplies electricity through solar panels thus maximizing solar energy usage.

- VOC range: 19volt-25volt, Charge Controller Rating - 40 Amp/12V, with 98% efficiency for fast charging, Sine wave Solar hybrid UPS with 80%(0.8) efficiency, Rated AC power: 900VA, 12V (So,  $900 \times 0.8 = 720$  Watts)

- Eg. UTL Solar Mono PERC 165Watts, 12volt Design: upto 6 Panels: VOC=21.82volts