PRELIMINARY INFORMATION-SEARCH-FURTHER-YOURSELF:
(A)OffGridSolarBatteryInvertorDOMESTIC(4 no. Batteries i.e. 4x12volt In Series Connection = 48volts, 150AH-200AH, each battery 12 volt SolarTallTubular):
MonoPERC Panel: JinkoSolar/Waaree/UTLsolar/Luminous 32cell/36cell/60cell/72cell VOC:
Two-Variations:
1. Luminous MPPT Charge Controller 48Volt/50Ampere-VOCrange--Alongwith--3Kilowatt/(3750VA-4000VA AlreadyExistingAtHome Normal Inverter)
                    OR
2. 3Kilowatt Luminous Solar Inverter NXT+ MPPT3750VA-PCU-VOCrange
[PanelStandAloneVOC/PanelsInSeriesVOC < ChargeControllerVOCrange/PCUSolarInverterVOCrange]
MC4connectorIP68/PanelJunctionBox
GI/MS PanelStructure
DCDB-MCB/BatteryChargeMeter/dcSPD/DCearthing
ACDB-GridMCBoff/InverterOutputMCB/InverterOutputUnitMeterDigitalDisplay/acSPDwhenGridOn/ACearthing-AlsoSameForInverterBody
DCwire-10mmsquarePanelChargeController/10mmsquareChargeControllerBattery/16mmmetersquareBatteryInverter
ACwire-6mmsquareInverterACDB
LighteningArrester(LA)(ProtectionRadius)
Seperate3meterDeepEarthingAC&DC&LA-CopperElectrodes-ChemicalCompound-3mmThick-Strips-With-Saddle
ChemicalCompoundTypes:1.BackfillCompound(Rocksalt+Charcoal+Anticorrosion mixture) BLACKcolor for Normal areas 2. BackfillCompound(Clay+Bentonite+Charcoal+Rocksalt) BROWNcolor for Desert Areas.
Seperate/ExistingFor-ACEarthing

(B)Gridtie/Bidirectional/NetMetering SolarInvertorDOMESTIC+INCOMEfromGrid(Batteries not required):
LuminousCompanyGridtieInverter7500VA/6.0KW & SecureCompanyMeterForReading.

NoteX: 3 Kilowatt Gridtie SolarInverter --or-- 3 kilowatt MPPT SolarInvertor PCU will get you 40%Govt.subsidy on 3KW-solar-panels or less than 3KW-solar-panels.(Check)
NoteY: 6 Kilowatt Solar Panels will get you 20%Govt.subsidy on 6KW-solar-panels.(Check)
NoteZ: MPPT is better than PWM efficiency wise.

MINIMAL-SETUP-STANDALONE-TOP-SELLER:
Luminous [MODEL:Solar Home UPS NXG+ 1400VA], 150-200AH:12VoltSingleSolarTallTubularBattery
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.
-VOCrange: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, 900×0.8 = 720Watts)
-Eg. UTL Solar MonoPERC 165Watts12voltDesign:6Panels:VOC=21.82volts