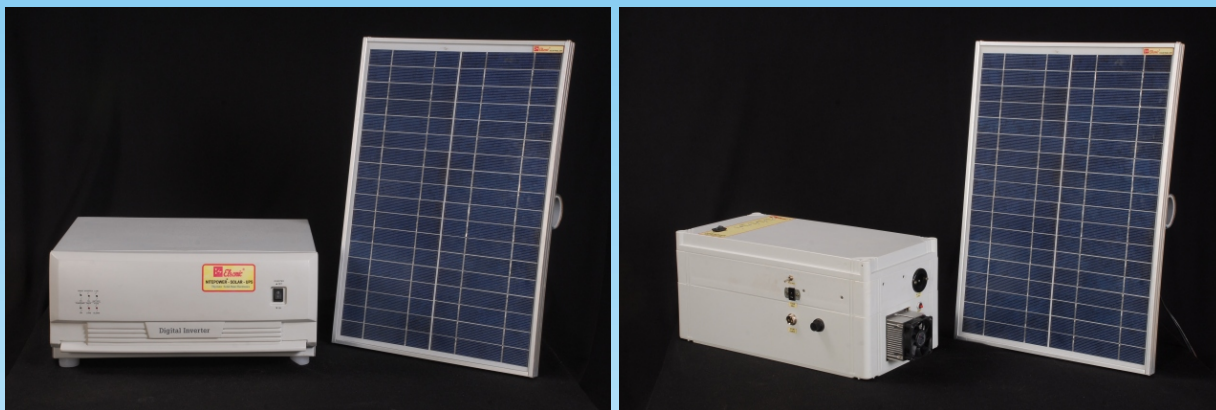




ELSONIC® NITEPOWER® SOLAR AC UPS SYSTEMS



ELSONIC® NITEPOWER® SOLAR UPS SYSTEM POWER PACKS

These are comprehensive solar-powered lighting and power systems using large multiple solar panels & high-capacity batteries to power high power inverters that can supply 220 Volts AC at 50 Hz. or 110Volts at 60 Hz . Such systems can power several homes/cottages with lighting and utility power for Computers, TVs, & other such equipment.

Compact custom-built Solar Powered & Wind Turbine enabled (optional) off-line Alternating Current (AC) Power Packs, offering Uninterrupted Power with built-in batteries or external batteries. These systems range from the standard 300 Watt (400 VA), 500 Watt (600 VA), 1 Kilo-Watt (1200 VA), 3 Kilo-Watt (4 KVA) upto 20 Kilo-Watt (25 KVA) output. The power duration is from 20 minutes to 24 hours, depending on the battery capacity (Ampere-Hours) and the size of the solar panels (Watts) and/or the mains utility power charger.

Provided with dual-charging options of solar and wind generator alternate energy supply. Mains utility power supply is also fed as an optional source of power. For faster charging especially in areas with no utility-electricity supply, the systems have to be designed to accept large Solar Panels. Pulsed fast-charging, regulated controllers are used with dynamic cut-off from battery overcharge and excess discharge. System will automatically choose Solar charge if both AC power and Solar Power are connected and there is sufficient sunlight.

Standard Technical Features:-

- Functions as regular 'GREEN' power source with mains-utility supply as the back-up source
- Mains Utility input at 220 Volts, 50 Hz. A.C. (or optional 110 Volts, 60 Hz. A. C.-North America)
- Solar Panel input 15% Efficiency Polycrystalline ranging from 80 Watts to 10000 Watts (10 Kilo Watts)
- Standard rugged metal enclosures for larger capacities & plastic enclosures for models below 1 Kilo Watt
- Sealed Maintenance-Free Valve-Regulated batteries supplied for undisturbed continuous operation
- Automatic overcharge and excess battery discharge shut-off with LED status indicators
- System overall conversion efficiency above 75%

Elsonic are the pioneers in design and manufacture of off-line UPS systems since 1981. The many proprietary innovations developed, continue to be standard features of these newer Green Energy products. Special custom-built models are available offering 3-phase outputs. On-line systems with pure sinusoidal output can also be supplied with the disadvantage of lower overall system efficiency. Grid-compatible on-line systems to use with wind turbines are also available.

Due to the complex evaluation requirements, site visit and evaluation on project basis at customer cost is necessary, before quotations can be generated.