



PENTA SOLAREX

A complete Solar Solution Company Since 2000

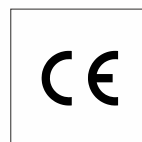
SOLAR PHOTOVOLTAIC GRID-TIED INDUSTRIAL & COMMERCIAL ROOFTOP POWER GENERATION SYSTEMS



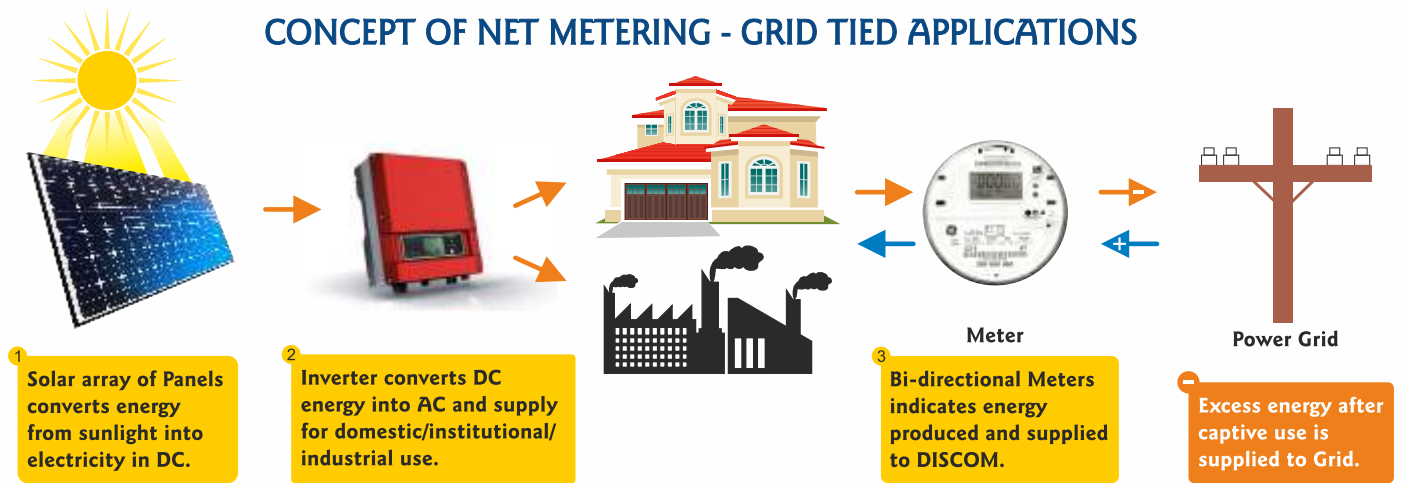
Product Features

- Grid tied - Net meter compliant turnkey (EPC) installations
- State of the art engineered and integrated roof-top solutions
- Project EPC services by in house team of expert technocrats
- Excellent installation & after sales support, O&M packages available
- World class components - High efficiency solar PV crystalline panels, power inverters, electrical & electronic components, protection devices and remote monitoring

Meeting Global Quality Certification Standards of:



CONCEPT OF NET METERING - GRID TIED APPLICATIONS



TECHNICAL SPECIFICATIONS

Plant Capacity	52 kWp	104 kWp	253.5 kWp	500.5 kWp	> 500.5 kWp
SOLAR INVERTER	50 kW	100 kW	250 kW	500 kW	> 500 kW
NUMBER OF MODULES (325Wp)	160	320	780	1540	> 1540
ANNUAL GENERATION (units-kWh)	75,920	1,51,840	3,70,110	7,30,730	> 7,30,730
REQUIRED ROOF AREA(ft ²)	5000-6000	10,000-11,000	25,000-26,000	50,000-51,000	> 51,000
COMPONENTS DEPLOYED FOR SYSTEM					
A. SOLAR PANELS/MODULES					
Watt	325 Wp (up to 360 Wp available)				
Quality	Crystalline PV Modules from domestic/overseas manufacturers meeting all international & MNRE standards				
Manufacturer's Warranty	10-20 years product and 25 years linear power generation warranty/guarantee				
B. SOLAR INVERTER					
Type	String inverters				
Quality	World class proven brands & quality products, meeting all international & MNRE quality standards				
Manufacturer's Warranty	5 years product warranty-extendable at extra cost				
C. PV ARRAY MOUNTING STRUCTURE					
Material	High tensile steel hot dip galvanized structure/aluminium structure meeting IS 2062 standards				
Make & Design	Penta solarex private limited/other reputed vendors				
D. ELECTRONICS & ELECTRICALS					
Power Protection : DCDB & ACDB	Designed by Penta and fitted with best electrical & electronic components and packaged in polycarbonate box - meeting IP 65 / 66 / 67 standards				
DC Wires & Cables	UV protected E-beam tested solar grade 4 mm ² cable				
Connectors	MC 4 connectors, Lugs - meeting international quality standards & parameters				
Lighting arrestor, over voltage / earthing protection	Copper/ESE lightning arrestor with 25X3 GI strip earthing, earthing rods with chemicals, earthing wires				
E. BALANCE OF THE SYSTEM	Standard product best suitable to the system designed meeting quality standards				
SYSTEM PERFORMANCE GUARANTEE	Guaranteed performance ratio backed by corporate/bank guarantee				
OPTIONAL (NOT INCLUDED IN STANDARD PACK)	Water Cleaning System * Operations & Maintenance * Weather monitoring station				

ADVANTAGES OF SOLAR POWER PLANT



Payback in 3-4 years

Hassle free maintenance

Start saving from day one

Reduce or eliminate electricity bills up to 100%

Long life of 25 years

Get energy credits by exporting un-used solar power

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