PG SOLAR
GREENERGY INC.

ULTRA Triple Boosting Innovative Revolution Technology is Here

Ultra Hybrid **550Wp** Bifacial Photo-Voltaic & **1,280Wp** Thermal Production system

The most efficient Semi Transparent **HYBRID BPVTPT** in the market

- ✓ **Up to 45% and more Energy production of 4.8KW 1m²****
  Vs Regular Photo-Voltaic Panel (throughout yearly average **hottest day hours**).
- ✓ **At the same time & space simultaneously producing Elec & Thermal Energy.**
- ✓ **Up to +23% Improvement in Electric efficiency** through active **PV** cells cooling.
- ✓ **SMART HOT SPOT FREE** thus optimize panel performance increased annual electric yield.
- ✓ Higher Energy, represent the next generation of **Ultra Triple-Bosting Energy Module technology** of **BPVTPT****.
- ✓ **Triple Tempered Glass** advanced for complete surface heat **absorption**.
- ✓ Remains snow-free during winter due to a defrosting effect as result of constant closed differential water circulation and relies on flexible self-expansion coefficient.
- ✓ **Hybrid BPVTPT** systems, due to the increased efficiency and the possibility of cogeneration, Electrical and Thermal, significant savings-installation simple and more cost effective when compared to standard collector and dual separate PV and Thermal pipe units.
- ✓ An alternative to roof tiles/roofing, greenhouse and thermal rooftop insulation.
- ✓ Powerful and lightweight – only 39 Kg
- ✓ Reduced aging of PhotoVoltaic cells.
- ✓ Performance Guarantee; 8 years **94%** Linear Power output
  30 years **86%**

The PGSolar Greenergy **ULTRA HYBRID BPVTPT (Bifacial PV partly Transparent Panel Thermal) Designed of Black Half- cut monocrystalline** modules are connected to closed loop water pump.
Therefore, the system provides all of the required **sanitary hot water needs,** as well as additional **25%-30%** of all **Thermal Energy** which is needed for operation a domestic 3-sources of energy **HYBRID AC(el) & PV & Thermal SOLAR Air Conditions unit.**

General Specifications of Ultra Hybrid Half-Cut Black Mono-Crystalline Module (standard test condition STC)

No hot spot temperature			Electrical
Dimensions	2128x1058x35 mm		
Double Tempered glass design	144 cells or more		
Module Efficiency	21%	Pmax	465 Wp
Incorporated additional Gain	25.5% +~85w	Pmax	**550 Wp**
Thermal hot water/air generation			**1,280 Wp**
Internal liquid capacity	3.8Liter		
Liquid/Air flow rate	280l/hour	Air 8	m³/h
Insulation & Junction electric box	IP68		
Number of connections (IN or EX ½")	4/8. Tubes DIA Ø 16/20 mm		

MORE ENERGY production within the **SAME PHYSICAL PLATFORM**

Electrical & Thermal Price:
0.18 Euro/Watt*
*connection & supports not included

Photovoltaic panels Certified by TUV NORD CERT Gmbh
STC; Irradiation 1,000W/m², panel temperature 25° C air mass = 1m/s
** Installed above a differential telescopic elliptical sun tracking mechanism (Tested at average 7.5 hours Day)
Price FOB Shanghai

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