

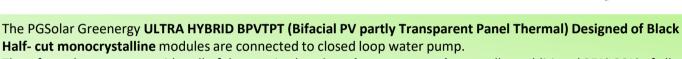
ULTRA Triple Boosting Innovative Revolution Technology is Here

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 1m^{2**} 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%



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			<u>E</u>	lectrica
Dimensions	2128x1058x3	35 mm		
Double Tempered glass design	144 cells or m	ore		
Module Efficiency	21%	Pmax	4	65 Wp
Incorporated additional Gain	25.5% +~85w	Pmax	5!	50 Wp
Thermal hot water/air generation			1,2	80 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 $\frac{1}{2}$ ") 4/8. Tubes DIA Ø 16/20 mm				

MORE ENERGY production within the SAME PHYSICAL PLATFORM

Electrical & Thermal Price: 0.18Euro/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 P.o.b 198 zip 4410102 Kfar Saba Israel +972 54 7275551

Petergreenerenergy@gmail.com No R 065847501

Patent 255843 PCT /IL2019/050627© 2018 All right reserved to Peter Graner

www.pgsolar-geenergy.com