

# EXELTECH PVAC Module

**Solar Electric Systems Have Always Been Expensive ...  
Until Now!**



## What is a “PVAC Module”?

Exeltech's PVAC Modules are a fully self-contained, UL-1741-certified PV/inverter combination that produces grid-ready, sine-wave solar electricity suitable for connecting to the commercial utility grid on YOUR side of the electric meter! This can slow your meter or even spin it backwards if your system generates more power than you consume! All this without the complexity, expense, or hassles common in other systems ... even “micro-inverters”!

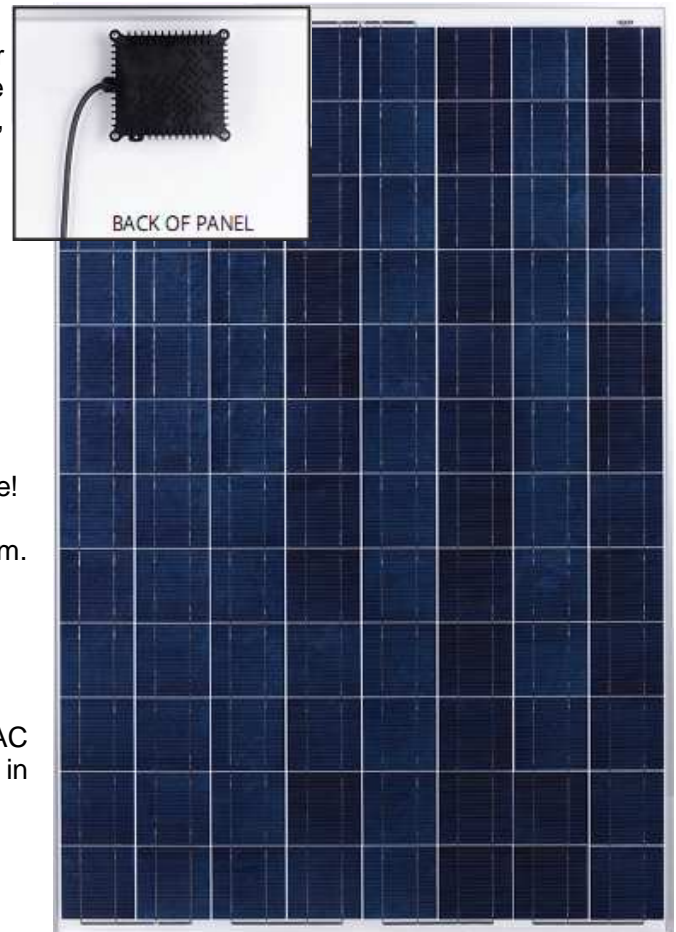
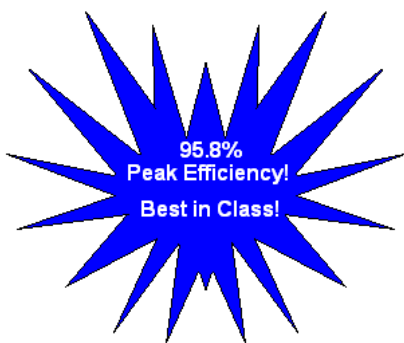
## Exeltech PVAC Module Advantages

Whether you're installing solar equipment for the first time, or adding to an existing system, Exeltech PV AC Modules are the perfect solution! They're compatible with utility power on homes, businesses, commercial and government buildings.

- Have a system already? Add PVAC Modules anyway! PVAC Modules work with existing solar equipment. Use Exeltech PVAC Modules to expand your system.
- Lack sufficient space for a full-sized system? No problem! PVAC Modules can be installed in any number to “fill in” odd-sized areas. Simply install as many as you need for 100% coverage.
- Your home or building doesn't face directly south? Non-issue! PVAC Modules can be mounted facing different directions from each other without impacting other modules in the system.
- Environmental extremes? PVAC Modules are the answer! Exeltech PVAC Modules will operate at full power from -40°C to +70°C (-40°F to +158°F)!

Buy whatever your space and budget allow! Start with one PVAC Module .. or many! Add to an existing system at any time! Fill in spaces where insufficient room exists for a full “string” system.

## Additional Benefits of Exeltech PVAC Modules:



- **Easy to install!** PV panels and inverters are each integrated into one unit! An astute Do-It-Yourselfer can put in a system!
- **Minimizes System Design Time and Expense!** Less hardware to handle!
- **Simplified System Assembly!** Only **ONE** cable to connect! AC wiring connects directly to your utility power panel with appropriate breaker!
- **Individual Microprocessor-Controlled Maximum Power Point Tracking** Operates over entire PV voltage range, increasing energy harvest!
- **Maximum Efficiency Means Maximum Monetary Return!** More money returned to you in production-based system environments!
- **Designed and Manufactured by Exeltech in Fort Worth Texas** – a 20-year old American company in the international inverter industry. We've been making solar-electric equipment since 1990!

# Exeltech PVAC Module Specifications

## Electrical Specifications (all models)

Input Power	240 watts
AC Output	120Vac, 60 Hz (nominal), 1.8 amps
Maximum AC Output Power	216 watts (nominal)
Electrical Operating Range	108-132Vac, 59.3 to 60.5 Hz in accordance with the UL1741 Safety Standard
Power Factor	> .99 (typical)
Total Harmonic Distortion (THD)	< 5%
Peak Efficiency	95.8% (California Energy Commission weighted efficiency: 94.5%)
Maximum Power Point Tracking	Yes. Over the solar panel's full operating range.
Minimum Feed-In Power	< 1 watt (PVAC Modules will begin delivering power to the grid at less than 1 watt.)
Standby Power Consumption	0 watts
Nighttime Power Consumption	0 watts (PVAC Modules derive no power from the utility, so no wasted energy!)
Data Logging	Yes. With optional HelioSentry available from Exeltech.

## Environmental Specifications

AC Module Enclosure	NEMA 4X, anodized aluminum, all stainless steel hardware.
Operating Temperature Range	-40°C to +70°C (valid at any output power, including max output wattage)
Storage Temperature	Same as operating.
Humidity	0 to 100% condensing
Surge Protection	IEEE 62.41 Class B
Ventilation	Convection cooled. No moving parts.

## Mechanical Specifications – PV (overall, including AC Module)

Width x Length x Height	41.9" (1065 mm) x 62.8" (1596 mm) x 2" (5.08 cm)
Weight overall	49.6 lbs (22.5 kg)

## Certifications

ETL Certified to UL 1741, CSA Standard 22.2, CSA Standard 22.2 No. 107.1-1, IEEE 1547, IEEE 929  
PV Certified to UL 1703 Standard for Photovoltaics  
Federal Communications Commission 47CFR, Part 15, Class B  
Surge Rated to IEEE 62.41 Class B  
California Energy Commission Peak efficiency: 95.8%. CEC weighted efficiency: 94.5% (verified by independent lab tests)  
Fully Compliant with the National Electric Code (NEC 1999-2008)

## Technical Support

Technical Support M-F, 7:00 am – 5:00 pm Central time, e-mail, phone. All support based in the USA.  
Warranty 5 yrs standard, 10 yrs extended, up to 25 years depending on PV manufacturer.  
(Units out of warranty will be repaired for cost of shipping and handling!)

**Exeltech products are designed and manufactured in the USA in our Fort Worth, Texas facilities.**



Manufacturer of more than 35,000 different true sine wave power inverters, chargers, and related products.  
More than 20 years of Exeltech's inverter manufacturing experience and support behind every Exeltech product.  
We provide the emergency backup power systems for the Communications Center in every US Embassy, worldwide...

**Proud holder of and the ONLY American inverter manufacturer to qualify for the prestigious  
TL9000 Quality Assurance Certification (far exceeds ISO 9001:2000)!**

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(Specifications subject to change without notice.)