

# Complete Power Solutions

Power Panels and Power Modules

REMOTE POWER  
BACK-UP POWER  
UTILITY TIE POWER



THE POWER COMPANY

**Trace**®  
ENGINEERING

## Complete Power Solutions



**Trace Engineering offers complete power systems to meet your energy needs:**

**Remote Power Solutions** - Reliable electricity for off-grid homes, agricultural equipment, rural electrification and telecommunications applications where there is no utility grid. Trace systems produce dependable AC power for remote applications from photovoltaic (solar electric) panels, batteries, generators, wind and small hydro.

**Back-up Power Solutions** - Reliable AC electricity in areas that suffer from intermittent power or brown outs. Trace systems keep you and your business up and running.

**Utility Tie Solutions** - Utility quality power from photovoltaic panels or wind. Trace systems convert power from a renewable source to store in batteries and to produce utility quality power that you can use for any household appliance or to "sell" back to the utility company.

### Power systems in one package

Trace Power Modules provide you with a complete, balanced systems package. They integrate and regulate utility power, generators, batteries, photovoltaics and other DC charging sources to meet your power requirements. You provide the power source and Trace power systems ensure your applications and appliances operate reliably. For reliable power when and where you need it, you can depend on Trace.

**Each Power Module or Power Panel has the features you have come to expect from Trace:**

- Reliable, quiet and easy to operate Sine Wave or DR series inverters
- Systems provide 2.5 - 3 times their rated output for large startup loads needed to run motors and appliances
- Pre-wired and packaged for easy installation
- UL or ETL listed and approved
- 2 Year limited warranty

## Power Modules



Power Module with cover removed (3 stacked)

### Power Module Series

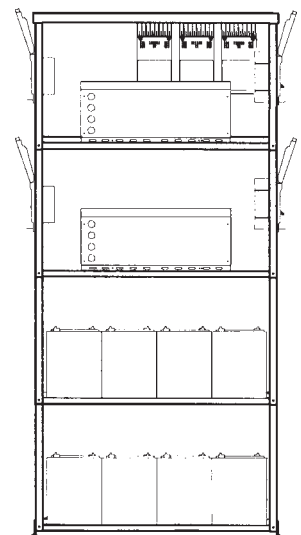
Trace's Power Modules are a complete power package. You choose the components and we create a customized, factory integrated system to meet your power needs. Modules are pre-wired and ready to connect to your AC and DC power sources right out of the box. **Inverters are not included;** just add the inverter model you need.



#### Features/Options:

- Inverters, SW Series or DR Series
- C40 Charge Controllers, up to three per individual Power Module
- AC & DC over current protection breakers
- Indoor or outdoor enclosures with or without locks
- Stainless steel mounting hardware and aluminum enclosures with durable powder coat finish
- DC Ground Fault Protection
- Wiring for batteries and all input and output connections
- UL listed enclosure and components

The Trace Power Module is a complete, balanced system package designed to permit seamless system integration. The modular design allows for easy installation while permitting maximum flexibility. A variety of optional kits are available which can be factory or field installed. Individual modules can be shipped via UPS. The Module allows isolation of components, wiring and safety circuitry in a lockable cabinet.



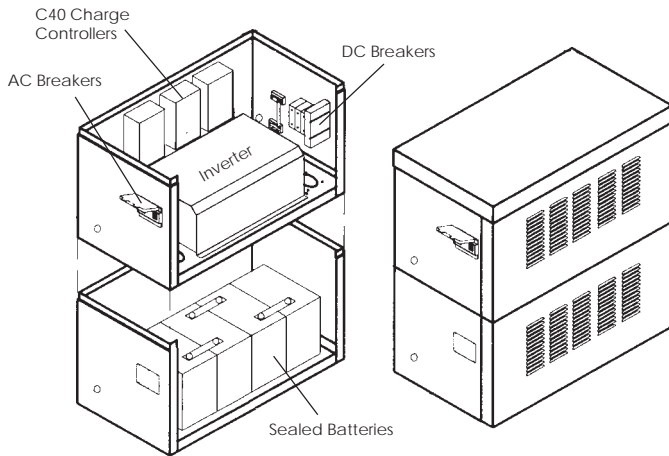
4 stacked Power Modules

## Power Modules

### Flexibility

Power Modules built to your specifications can be connected together in stacks up to four tall. Each stack can be used to house:

- Electronics: inverters, controllers, and AC/DC breakers
- A combination of electronics and sealed batteries
- Batteries as an adjacent stand-alone cabinet connected to an electronic module



## Power Panel Series

Power Panels are Trace's first packaged power system. They are less expensive than an on-site component installation and meet many power application needs. To install a Power Panel, simply connect them to the battery, PV and or AC loads. Power Panels include inverters and are assembled by Trace with components specified by the dealer or customer:

### Features/Options:

- One or two Trace SW or DR inverters
- Powder coated steel back-plate pre-wired with all NEC/UL requirements, AC & DC over current protection and disconnects; only for indoor installation
- Single or dual C40 charge controllers for use with solar, wind, hydro DC charging sources
- 60 amp AC system bypass that allows inverter servicing while keeping AC loads connected to the grid or generator
- Optional nonmetallic battery enclosure which doubles as a shipping enclosure
- Flexible conduit for connection of the system to the battery enclosure
- ETL listed components and enclosure
- Negative/ground bonding block



## Trace Inverters

### SW & DR Inverters

Trace Inverters are the power house inside the Power Modules and Power Panels. SW or DR inverters are fully integrated into your Power System, and come installed in a Power Panel. Inverters are not included in Power Modules; they are shipped separately and can be easily installed on-site. The SW's feature sine wave output, generator integration and control, DC power source integration and utility interactive capabilities. The DR's are a lower cost modified sine wave inverter designed for smaller power requirements. The DR cannot "sell" back electricity to the utility-grid and is therefore suited for smaller back-up and remote power applications.

Choose the inverter that best meets your needs. Listed below are the highlights of the DR and SW Series inverters. For more information, please see inverter specification sheets or a Trace dealer.



SW Series

### SW Series Power Modules & Power Panels

- Sine wave AC power inverter with high efficiency, up to 96%
- Up to 30 kW of continuous AC input (US models with 6 inverters)
- Available outputs of 105, 120, 230 or 120/240 vac at 50 or 60 Hz
- Available for 12, 24 or 48 volt DC system voltages



DR Series

### DR Series Power Modules & Power Panels

- Modified sine wave AC power inverter with high efficiency operation and battery charging ability
- Up to 7.2kW of continuous AC power
- Available outputs of 105, 120, 230 or 120/240 vac at 50 or 60 Hz
- Available for 12 or 24 volts DC systems voltages



# Building Complete Power Solutions

## Reliable Power Solutions

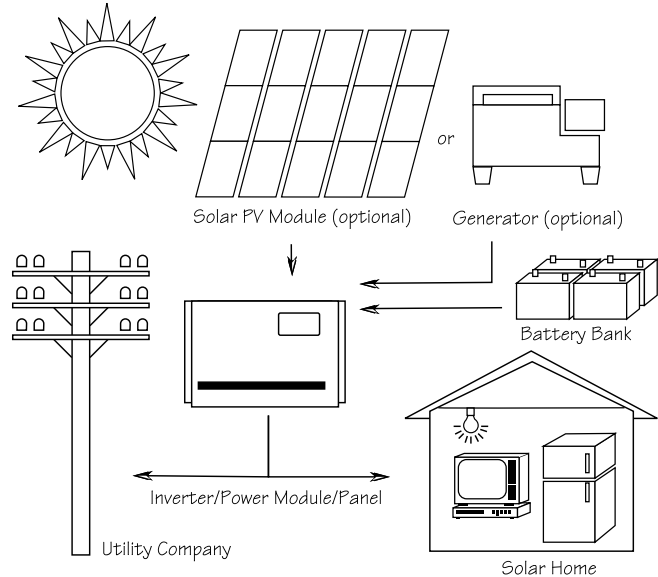
Trace Power Modules and Power Panels ensure you have power for your home and your business. If you have sporadic utility power, are off-grid, cannot withstand power outages, or are just interested in using renewable power, Trace Power Solutions will make sure your appliances: lights, refrigerators, faxes, computers, TV's and more, are always running.

Trace Power solutions integrate and regulate all your power sources seamlessly.

- Batteries
- Utility Power
- Generators
- Photovoltaic Panels
- Wind Power

Trace products ensure you will not be aware of power fluctuations, that is until you look outside and the rest of the neighborhood is dark.

- Remote Power
- Back-up Power
- Utility Tie Power



Typical Back-up power grid interactive system.

Whatever your requirements, Trace has a solution. Buying a fully engineered, professionally assembled Power Module or Power Panel is as easy as calling your Trace dealer. They can help you determine the correct size and models for your power needs. You can be assured of code compliance and quality components because all of our products are factory built and tested.

Trace Engineering is recognized worldwide for manufacturing the most advanced and dependable inverters. Our manufacturing plant is located in Arlington, WA, USA. Our dealers span the globe. We have been producing high quality, reliable inverters and power components since 1984.

To receive more information about Trace Power Modules, Power Panels, Inverters or other products, please contact your local Trace Distributor. If their name does not appear below, please contact Trace Engineering and we will forward your request to a dealer near you.

Available From:

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