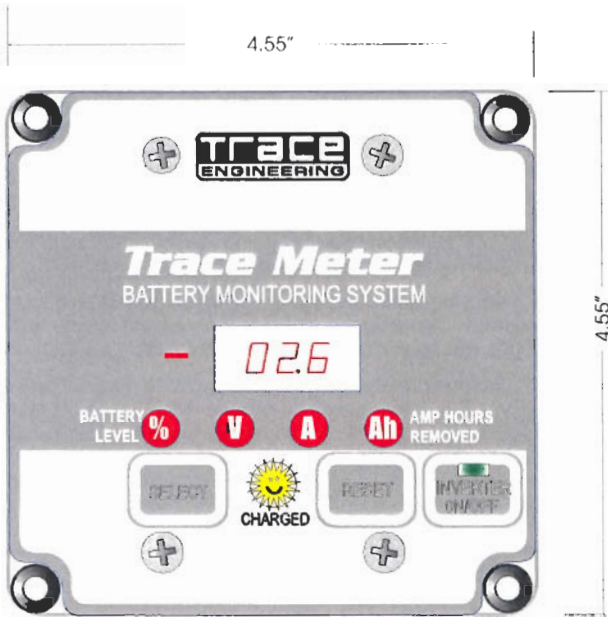




# Trace Meter

Battery Status Monitor



## INTRODUCING THE TRACE BATTERY STATUS MONITOR

The Trace Meter battery status monitor features six data-monitoring functions and three indicators including:

- State of Charge/Amp-hour content: full or percent of capacity
- State of Charge/Voltage: real-time voltage level, historical high & low system voltage
- Amps: real-time amps, total charging amps, total load amps
- Amp-hours removed
- Days since fully charged
- Cumulative amp-hours
- Recharge indicator
- Low voltage indicator
- Full charge indicator

The Trace Meter works with 12-volt, 24-volt, and 48-volt battery systems (optional TM48 shunt board required for 48-volt systems).



Trace Engineering 5916 195<sup>th</sup> St. N.E. Arlington, WA 98223  
Phone: (360) 435-8826 Fax (360) 435 2229

Thank you for choosing Trace Engineering products to meet your alternative-energy power needs. We take pride in our work and make every effort to ensure that your inverter/charger is properly packaged for shipping, and includes all required materials.

**THIS SINEWAVE UNIT WAS PACKAGED WITH THE FOLLOWING ITEM(S):**

- OWNER'S MANUAL
- RED/BLACK BATTERY TERMINAL COVERS w/HARDWARE
- HARDWARE PACKAGE FOR HARDWIRE COVERS
- BATTERY TEMP SENSOR
- DECLARATION OF CONFORMITY (*if unit is an Export*)
- TRACE BUMPER STICKER
- MC1 MANUAL or MC2 MANUAL (*if needed*)
- WARRANTY CARD

SERIAL NUMBER: W 13561

MODEL OF UNIT: SW 4024

PACKAGED BY: DK

DATE: 7-26-99

If any of the above listed materials are missing from your package, or it is unsatisfactory in any manner, please call Customer Service at 360-435-8826 or fax this page with your comments, model and serial number of your unit, to 360-435-2229. And again, Thank you for choosing Trace Engineering for your alternative-energy needs.

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**DAYSTAR ENERGY SERVICE  
10316 PARKMAN RD  
SILVER SPRING, MD 20903  
301-434-9363**

PROPOSAL

proposal no. **5 5 5 4**

sheet no. ~~12~~

date ~~2009~~

submitted to:  
Tim Ridley  
9011 Georgetown Pk  
Great Falls, VA

work to be performed at:  
same

We hereby propose to furnish the materials and perform the labor necessary for the completion of:

Installation of a battery supply system to power the existing well pump and ejection system and a photovoltaic (pv) array to charge the battery. The pv will be a minimum of 1000 watts peak output using single or multicrystalline modules, new with a minimum 20 year factory warranty, installed on the roof with no tracking device. For example, 16 - bp 275 (1200 watt peak) or 20 - solarex msx-64 (1280 watt peak).

The battery will be 12 L-16 type battery (Trojan, US Battery, Exide, etc.) wired for 24 volts, installed in a plywood enclosure and vented under the deck, providing approximately 5 days of autonomy (based on average usage measured from on site metering from 2/12/99 to 4/15/99).

The DC side of the system will include a combiner box with fuses for array wiring, a DC disconnect, lightning arrestor, charge controller, metering device(s) and grounding device all of appropriate size.

The AC side will have a Trace 4024 sine wave inverter, a breaker box and breakers for outgoing circuits, a 120v to 240v transformer, lightning arrestor on the well side, and an appropriate grounding device.

Power conducting wires will be brought into the attic at the closest, convenient spot and run inside the house. Client to provide long term access to attic spaces. Where wires run inside of existing walls, repairs to drywall will be done by others. Array grounding will run outside of the building to the ground.