



**Axiom Technologies, LLC**

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## **Solar Transfer Pump**



### **General Specifications:**

**Operating Voltage** : 12 vdc

**Power Source** : Photovoltaic (Typical).

**Options:** - Commercial AC power  
- External 12vdc source

**Energy Storage** : 12 vdc, AGM batteries  
(AH capacity to be determined by application)

**Battery Bank Temperature Range** : -40 to 60°C (Discharge)  
-20 to 50°C (Charge)

**Electronic Modules** : Battery Charger/Pump Controller  
(Expandable) Pump Driver(s)

**Controller - Battery Charger** : 20 Amp Maximum Solar Array Current (Expandable)

**Controller - Pump Drivers** : Independent control of up to two pumps

**Pump Driver** : Soft start, continuous duty 100A max.

**Electronic Modules Temp. Range** : -20 to 70°C

**Pump Standard Duty** : 50% Duty Cycle (30 min on)

**Flow Rate** : 20 GPM @ 3 psi  
18 GPM @ 8 psi

**General** : Explosion Proof Motor  
UL Listed

**Communications Protocol** : RS-485



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## SOLAR TRANSFER PUMP - BLOCK DIAGRAM

