



**Engine drives Generator via timing belt connection. Generator output feeds battery bank, battery bank feeds UPS system, UPS feeds appropriate voltage, phase and frequency to loads. As load power changes, battery bank supports excess load or stores excess output until generator can recover.**

# FreeLoader™ TS

## Steam Powered Engine and Generator

- > The "good old" steam engine has finally grown up. This totally new design allows a steam-driven engine to **produce 100% of the power** (that used to be available) **with only 12% of the steam.**
- > **70% recovery of thermal input** also allows this engine and generator system to be a CoGeneration Module as well.
- > **Fuel-to-electricity ratio of up to 98%, thermal efficiency of 87%, and overall operating efficiency well over 180%.**
- > With \$9.50 per MMBTU gas, this system makes electricity for only \$0.0334 per kWh with **FREE HEAT.**
- > **Runs on ANY fuel source, including ALL the RENEWABLES.**
- > **"Hybrid" version-** steam/refrigerant drive yields 15% more power (over 100% thermal-to-electric) with matching payback.
- > **98% CO2 savings and 99% NOx savings.**