

Remote Home Solar / Hybrid Installation



“We have been using MORNINGSTAR controllers in our applications for more than 10 years and we are very satisfied with them.”



The Challenge:

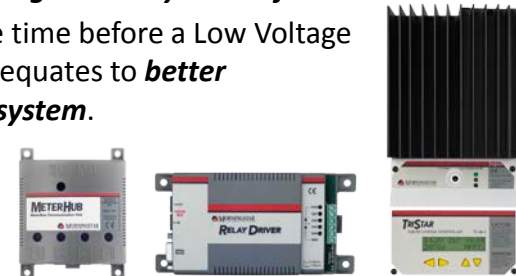
- Providing stable and reliable 24 x 7 x 365 power to this modern home in a remote part of the Slovak Republic, where there is no access to a stable grid.
 - Powering everything from lighting, to various household appliances, to computers & TVs, to the homes' heat pump systems, to vacuum cleaners and washing machines.

The System:

- 8kWp PV system installation (3 independent arrays working harmoniously with a Petrol Generator.)
 - With Auto-start functionality enabled by **Morningstar's Relay Driver**.

The Solution:

- **Morningstar's TriStar MPPT™ 60A Charge Controller with TriStar™ Remote Digital Meter, Relay Driver & MeterHub™ MeterBus Communications Hub.** Why?
 - Increased Energy Harvest, Long Operating Life & High Reliability.
- The **TriStar MPPT Controllers** have an earlier turn-on time & **significantly better efficiency** at lower output levels.
- The **TriStar MPPT Controllers** keep the batteries at a **higher State of Charge (SoC)** for the same PV array. Higher SoC means **better battery health & longer battery bank life**.
 - It also means more time before a Low Voltage Disconnect, which equates to **better autonomy for the system**.



Courtesy of ALTENER s.r.o.