

CASE STUDY

PUMPING SYSTEM

Existing Property, Cotswolds

PUMPING SYSTEM

Installing A Full Pumping System Including A Generator For Continued Power During Outage

Project Details

This village in the Cotswolds suffers from weekly power cuts, and when combined with severe weather patterns, flooding is frequent. A previous waterproofing system was inadequately installed in this property and it was unable to cope with the volumes of water during the power outage. As a result flood damage was a major problem.

Methodology

Newton Specialist Basement Contractor Guardian Preservation were commissioned to provide a specification for a pumping system that would cope with the high volumes of water present during a power outage.

The Victron Quattro Inverter was chosen to provide pumping during power interruption. It works by inverting 12V DC power from a battery (or multiple batteries) to clean and efficient 230V power. Because of the length of the power outage, the client required extra security in the instance that the batteries depleted before the power was restored, which in this particular village was very frequent. The self-start Generator System was installed and linked to the Victron Quattro Inverter.

Two Newton NP750 high performance pumps were installed.

Benefits

- The Victron Quattro provides continuous pumping of Newton pumps and pumping systems during power disruption
- For the ultimate in battery back-up protection, the Quattro unit can be mated with a generator that recharges the batteries once they reach a predetermined state of depletion to give unequalled protection against power outage.
- The intelligent technology within the Victron systems ensures that the batteries are always at optimum performance due to the SmartCharge capabilities

Result

The combination of the Victron Quattro Inverter alongside the Generator System provides unlimited power during prolonged power outage, ensuring that the basement remains dry at all times.

NSBC Contractor: Guardian Preservation



Historic house in a Cotswolds village which suffers from frequent power outages



Installation of the Newton Dual Pumping System, comprising two NP750 Pumps



Temporary installation of the Newton Victron Quattro Inverter while other internal works were being finished



Installation of the Generator System, which will be situated in a purpose-built housing

Featured Products

NEWTON VICTRON QUATTRO

Provides Pumping During Power Interruption

The Victron range of Inverter/Chargers provide advanced solutions to ensure that Newton Pumping Systems continue pumping during power interruption by inverting 12V DC power from a battery (or multiple batteries) to clean and efficient 230V power.

Key Benefits

- Powerful true sine wave inverters
- Sophisticated and powerful battery chargers featuring adaptive charge technology
- High-speed AC transfer switch <20 milliseconds
- Class leading inverter efficiency >92%
- Unlimited battery back-up protection with the Quattro 12/3000/120 and generator system
- Multiple control panel options
- Options for system monitoring including off-site via internet
- High-grade components for dependable and reliable pumping during power outage

Newton Victron Quattro



Sump and Pump

NEWTON NP750

High Performance Clean Water Pump

The Newton NP750 is a high performance ground and clean water pump. The NP750 is available as an automatic pump or as a manual pump for use with our pump control systems. The NP750 is available as pump only, or as a key component in our Newton Titan-Pro packaged pump systems.

Key Benefits

- Available as an automatic pump or a manual pump
- Gives continual pumping even when the power is out

Typical Applications

- Suitable for rain water/ground water
- Newton pumps prefixed NP are supplied by Newton Waterproofing Systems with a 3-year back-to-base warranty. This is increased to 5-years if under a servicing regime by a Newton approved servicing company/engineer.

Newton NP750



Sump and Pump