

POWER & PROTECT

SITE POWER GRID



Temporary power is a fundamental part of almost every construction and civil engineering site's set up, providing essential power to off grid locations for short periods.

As we move towards a carbon neutral society by 2030, the abolition of tax relief on red diesel, the introduction of electric vehicles and site machinery, the off grid power market will be in even greater demand. However, the very presence of a generator and associated fuel often attracts the attention of the criminal fraternity and requires some form of security to protect these expensive company assets.



THE POWER AND PROTECT PROVIDES:

- ✓ **HUGE REDUCTION IN DIESEL USAGE- TYPICALLY 80% PER DAY!**
- ✓ **MASSIVE REDUCTION IN CO2 PRODUCTION- IN EXCESS OF 230KG PER DAY!**
- ✓ **24H SURVEILLANCE- ELIMINATING THE NEED FOR ON-SITE GUARDS.**
- ✓ **EXTENSIVE ON-LINE REPORTS- COVERING FUEL, ENERGY, SOLAR PERFORMANCE AND SURVEILLANCE.**

THS, along with its strategic partner SSP have combined site power and site security in a single compact unit, POWER AND PROTECT.

In the combined unit you get all the power of SSP Microgrid with the added benefit of THS' monitored CCTV system, including PTZ, up to 64 wireless detectors, 2 way audio fully supported by our network of rapid responders.

SPECIFICATIONS

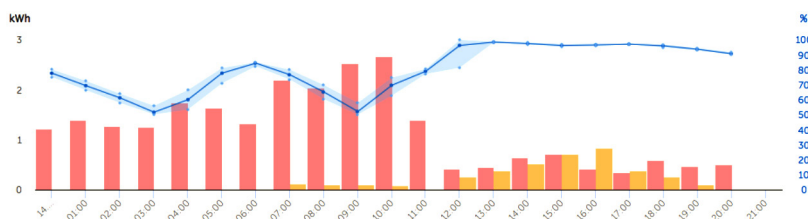
Camera	PTZ with 23x optical zoom
PIRs	Up to 64 wireless PIR inputs (4 as standard)
Power	6 cell lithium polymer battery (16 Ah 22.2V nominal, 26.1V max)
Alarms	Detect, movement, shock, cloak & tamper
4G LTE	High gain 4G LTE dual antennas (dual SIM)
Battery Backup	464Ah lithium battery for up to 14 Days with no sun. Built in remote battery monitoring
Recording	24/7 live recording to secure cloud storage
Solar Input	440w - 500w solar panels
CPU	560MHz Processor with 120MB DDR2 memory
Dimensions	2.5m x 6.1m base. Tower height adjustable 3.5m to 6m
Weight	Container : 4T Maximum Camera: 450-650 kg depending upon configuration

POWER AND PROTECT CASE STUDY

System overview

Last updated 4 minutes ago, status OK

Consumption Solar Battery



In the spring of 2021 a basic 25Kw SSP Microgrid® Construction was deployed to replace the sites previous generator and power a suite of welfare cabins and site offices.

Over the next 11 months:

- Fuel saved exceeded 31156lt
- CO2 avoided exceeded 83500kg
- Annual operating cost saving including fuel and generator hire exceeded £14655

Power and Protect has extensive reporting facilities. Customers can monitor their units in real-time and also access critical KPI's including:

- ✓ DIESEL CONSUMPTION
- ✓ ENERGY CONSUMPTION
- ✓ CO2 SAVED
- ✓ CURRENT / HISTORIC CCTV
- ✓ GENERATOR RUN TIME