

## PRESS RELEASE

### 5.4MW UPS Installation for major International IT Services Provider.

The end of 2017 saw SIEL Energy systems successfully complete 2 new major UPS replacement installations. A third installation is scheduled for completion in the 1<sup>st</sup> half of 2018.

ATOS, a major international IT services provider chose SIEL Energy Systems to supply, install and commission the highly acclaimed **HUAWEI UPS5000-S modular UPS product**. This market leading product provides unparalleled system flexibility and efficiency. The 3 installations provide a combined total capacity of 5.2MW to provide an uninterruptable power supply to the clients critical data centre load.

All 3 installations comprise the **HUAWEI UPS5000-S** modular product. These units are rated at unity pf so in the case of the 400kVA frame, can provide a full 400kW output. 'Capacitive' or 'Inductive' loads having power factors of anywhere between 0.5 lead to 0.5 lag can be supported without further derating. In addition to the high power output the **HUAWEI UPS5000-S** achieves a remarkable level of efficiency. **At 40% load in double on line conversion mode an efficiency of >97% is achieved.** This provides long term cost savings over the equipment lifetime both in UPS operating costs and ancillary equipment costs, such as cooling, due to the reduced heat output of the UPS modules whilst the reduced cabinet footprint of only 1.2M<sup>2</sup> frees up valuable floor space.

The **HUAWEI UPS5000-S** is a high end modular product. Each UPS frame can be populated with a number of 50kVA/kW power modules depending upon the frame size and power requirement. Each frame also incorporates a fully rated bypass module and features redundant electronic control modules (ECM's) and communications buses. The power modules, bypass modules and ECM are all "hot swappable" thereby reducing UPS MTTR's to minutes.

Prior to shipment the first 4 x units were subject to FAT, the performance criteria was verified by the client hosted by HUAWEI at their facility in Shenzhen, China.

The first installation in the clients West Midlands data centre comprised 4 x **HUAWEI UPS5000-S** 400kVA frames connected in parallel. Each 400kVA frame is fully populated with 8 x 50kVA/kW HIGH EFFICIENCY modules (S series) and connected to a 10min VRLA battery via a fused transition cabinet complete with a main battery circuit breaker. The installation was completed within a tight timescale and a UPS supply was maintained to the critical load throughout the works programme. This was achieved by replacing the old UPS equipment in 2 phases. Each UPS frame has been mounted on a new custom built plinth to fit into the existing data centre raised floor. Each phase saw the new UPS modules and batteries fully tested on an individual and overall system basis on site prior to being put into service.

The second installation in the clients Scottish data centre again comprised the **HUAWEI UPS5000-S** 400kVA product, this time configured in a parallel system of 3 frames.

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The systems intelligent “hibernation” function has been configured on both systems which facilitate the auto cycling of power modules within the system to meet the data centre varying load demand and ensure systems operate at their optimum efficiency levels. Modules instantly react to increased load demands.

SIEL Energy Systems are approved partners for the **HUAWEI range of UPS5000** series of UPS Systems in the UK and have amassed over 26 years’ experience in the Critical Power field.

About ATOS IT Services:

ATOS are leaders in digital services with pro forma annual revenue of circa € 12 billion and circa 100,000 employees in 72 countries, serving a global client base.

ATOS are the Worldwide Information Technology Partner for the Olympic & Paralympic Games.

Reference: HUAWEI INSTALL PR\_d



HUAWEI UPS5000 400kW UPS

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