

Digital Energy



Solutions & Technologies





Digital Energy Solutions

- **Huawei Power-S**
- **Data centre power solutions**
- **Smart Power Supply (UPS)**
- **Smart Cooling**
- **Intelligent O&M management**

Technologies & Services

- **30 - 200 KW systems**
- **Pre-integration setup & cable management**
- **Modular and prefabricated solution design**
- **15kVA - 1600kVA UPS solutions**
- **Power inventory use optimisation**
- **Tax and energy rebate advisory services**
- **ROI models and proof of concept implementation**
- **Energy system financing plans**
- **Compliance and regulatory advice**



Our digital energy approach

The growing energy crisis in South Africa threatens the operations and profitability of both enterprise and SME businesses.

As part of our commitment to keeping our clients' information technology operations running smoothly, Logicalis has partnered with Huawei Digital Power to deliver comprehensive energy solutions.

We offer modular, scalable, and environmentally-friendly options to ensure energy security and minimise business disruption.

Logicalis Digital Energy solutions are suitable for a broad range of sectors with different energy needs, including retail, hospitality, public sector and industrial operations.





Logicalis digital energy partner



Logicalis provides a range of energy solutions through an extensive Huawei Digital Power catalogue.

Huawei Power-S is a seamless solar hybrid power & backup solution that is suitable for commercial and industrial scenarios, providing a high-quality hybrid power supply.

Huawei Data Centre Facility power solutions focus on providing sustainable and reliable power supplies for data centre operations.

Digital energy solutions are available as prefabricated technologies or may be installed on a modular basis.

Modular or Prefabricated

Sustainable

Scalable

Efficient



Huawei Power-S

Huawei Power-S is a seamless solar hybrid power & backup solution that is suitable for commercial and industrial scenarios. Power-S supports multiple energy sources including Solar PV, DG and Grid, while ensuring a rapid switchover within 10ms. There is no sense of grid outage.

Huawei Power-S Hybrid Power All-in-One

Power-S is contained in one cabinet, which reduces its footprint, installation time and maintenance costs.

Perfectly scalable as more cabinets and batteries can be added as required. Each battery supports 6500 cycles and super charges within 1 hour.



Seamless Switching - No sense of grid outage



Removal/Reduction of Old Equipment



Cost Reduction



Zero Noise & Pollution



Reliable Backup & Supply





Huawei Power-S

Based on a modular design, users can flexibly expand the capacity of batteries and power modules that support flexible sizing for every budget, which helps minimise the construction cost throughout the lifecycle.

At the same time, in order to solve the problem of under-utilisation of battery value caused by the mixed use of old and new batteries, Huawei battery hybrid technology ensures maximised battery value.

High Battery Lifecycle (LFP Cells)

Built-in Fire Extinguishing System

Easy Maintenance

No Civil Work

Fast Charging

HUAWEI POWER-S Lighting Up Your Business & Facility

Seamless Switchover

Centralized monitoring

Intelligent Generator Control



All-in-one

Easy & quick installation

Flexible Sizing



Huawei Power-S Batteries

Huawei Power-S batteries are based on a modular design, meaning that you can expand the capacity of batteries and power modules which supports flexible budgets. This helps to minimise construction costs throughout the system lifecycle.

At the same time, in order to solve the problem of under-utilisation of battery value caused by the mixed use of old and new batteries, Huawei battery hybrid technology ensures maximised battery value and return on investment.

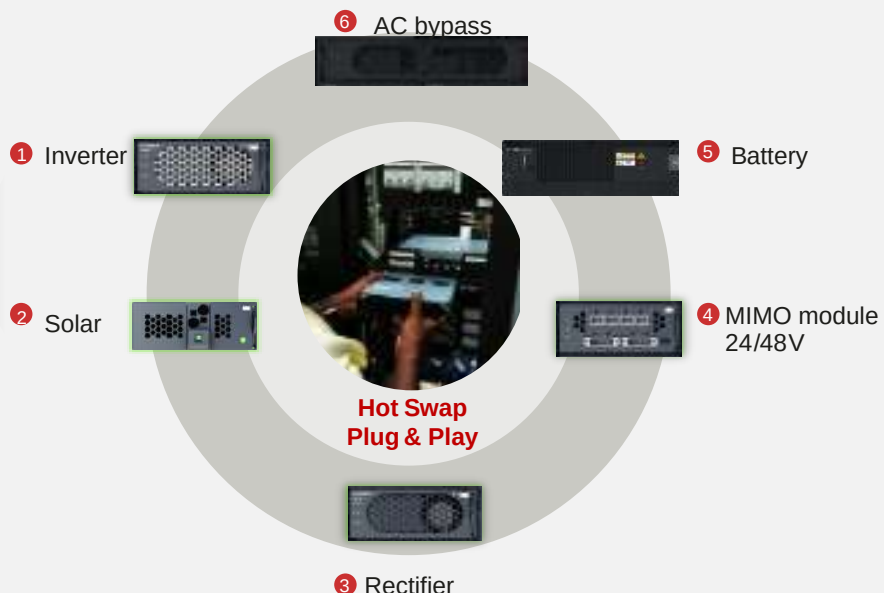
- Comprehensive BMS Management decrease thermal runaway
- Patented High Precision Battery Balance Management that maximises battery lifespan and capacity usage
- Smart anti-theft designs with software locks



Hot Swap, Plug & Play, Easy for Installation & Expansion & Maintenance

Every Module Support **Hot Swap**

All module Replaceable





Huawei Power-S Configuration

Huawei Power-S is completely modular and can be configured based on the business' energy needs.

With the rising cost of diesel, Huawei Power-S is the perfect answer to countering the risks of continued loadshedding.

0.5C Typical configuration: POWER-S

Typical configuration

- 1 30kW+60kWh
- 2 60kW+120kWh
- 5 30kW+50kWh
- 6 60kW+100kWh



- 3 Power cabinet
- 4 Battery cabinet



- 7 Battery cabinet



Indoor

Outdoor

Remark

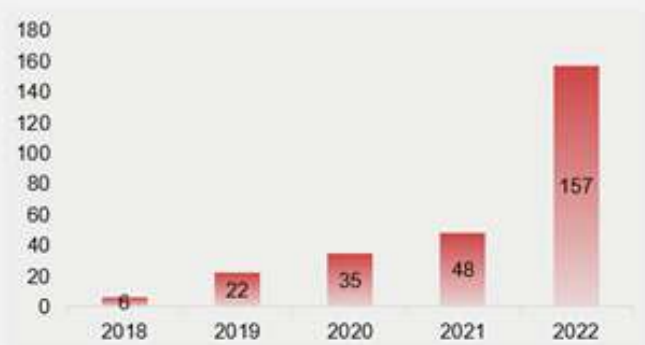
- Including battery, inverter, battery charger, solar MPPT, bypass, AC SPD, EMS, D.G. controller internal cablecommunications module Transformer -less.
- Common C&I: Typical average load PF≥ 0.83; Data Center Equipment Typical average load PF-1.
- Local touch color screen is optional

Key optional package

- PVDU-8kW
- Fuel sensor
- ATS
- D.G. controller
- Large touch color screen (indoor)
- Inverter Module
- Solar MPPT Module
- Rectifier Module
- 100Ah(4.8kWh) Lithium battery
- 200Ah(9.6kWh) Lithium battery

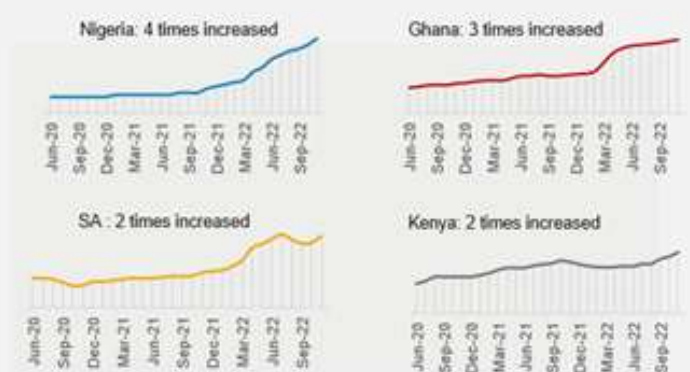


Frequent Load Shedding



In South Africa, the cumulative power outage duration of more than 150 days in 2022 has increased by 220% YoY.

Electricity Cost Keep Increasing



Energy crisis & Russia- Ukraine conflict lead to shortage of diesel supply in Africa, electricity cost rose by 2-4 times in the last 2 years



Data Centre Power Solutions

Huawei Data Centre power solutions offer indoor modular data centres, outdoor container data centres, Uninterruptible Power Supplies (UPSs), precision air conditioners, and a comprehensive infrastructure management system.

These solutions are suitable for a broad range of sectors and include Prefabricated, Modular and Hybrid offerings.

Prefabricated Modular Data Centres

Prefabricated modular data center solutions include Huawei's advanced series of data center infrastructure products, pre-integrated intelligent temperature control system, intelligent power supply and distribution system, intelligent lithium battery system, cabinet system, fire extinguishing system.

Intelligent management systems help customers build simple, green, smart, and reliable data centers.





Data Centre Power Solutions

Smart Modular DC

Huawei Smart Modular DC solutions are designed for rapid and low-impact indoor deployment.

Solutions of different sizes and capacities are available for a wide range of scenarios.

Smaller solutions such as the FusionModule 500 or 800 are perfect for branch offices, specialist centres, or smaller enterprises. Larger solutions such as the FusionModule 2000 are ideal for larger data centre operations.

Smart Modular DC technologies are highly integrated solutions which include power supply, cooling, rack & structure, cabling, management system within a module. These features ensure rapid delivery and on-demand deployment.





Data Centre Power Solutions

Smart Power Supply

Smart Power Supply solutions include a powerful range of Uninterruptible Power Supply (UPS) technologies for large data centres and smaller operations.

UPS solutions include the powerful FusionPower6000 for MW-level requirements, and the smaller UPS ranges such as UPS2000 for micro data centres.



Reduced Space & Carbon Footprint

Higher System Availability

Long Lifespan



Data Centre Power Solutions

Smart Cooling

Smart Cooling solutions include innovative air cooling and water-based cooling systems.

Hardware design and built-in cooling fans, chillers, and water pumps keep temperatures within efficient levels and ensure continued data centre operations.

The Smart Cooling range includes technologies that are installable indoor and outdoor. Self-monitoring sensors and automated notifications ensure that cooling is never interrupted.





Data Centre Power Solutions

Intelligent O&M Management

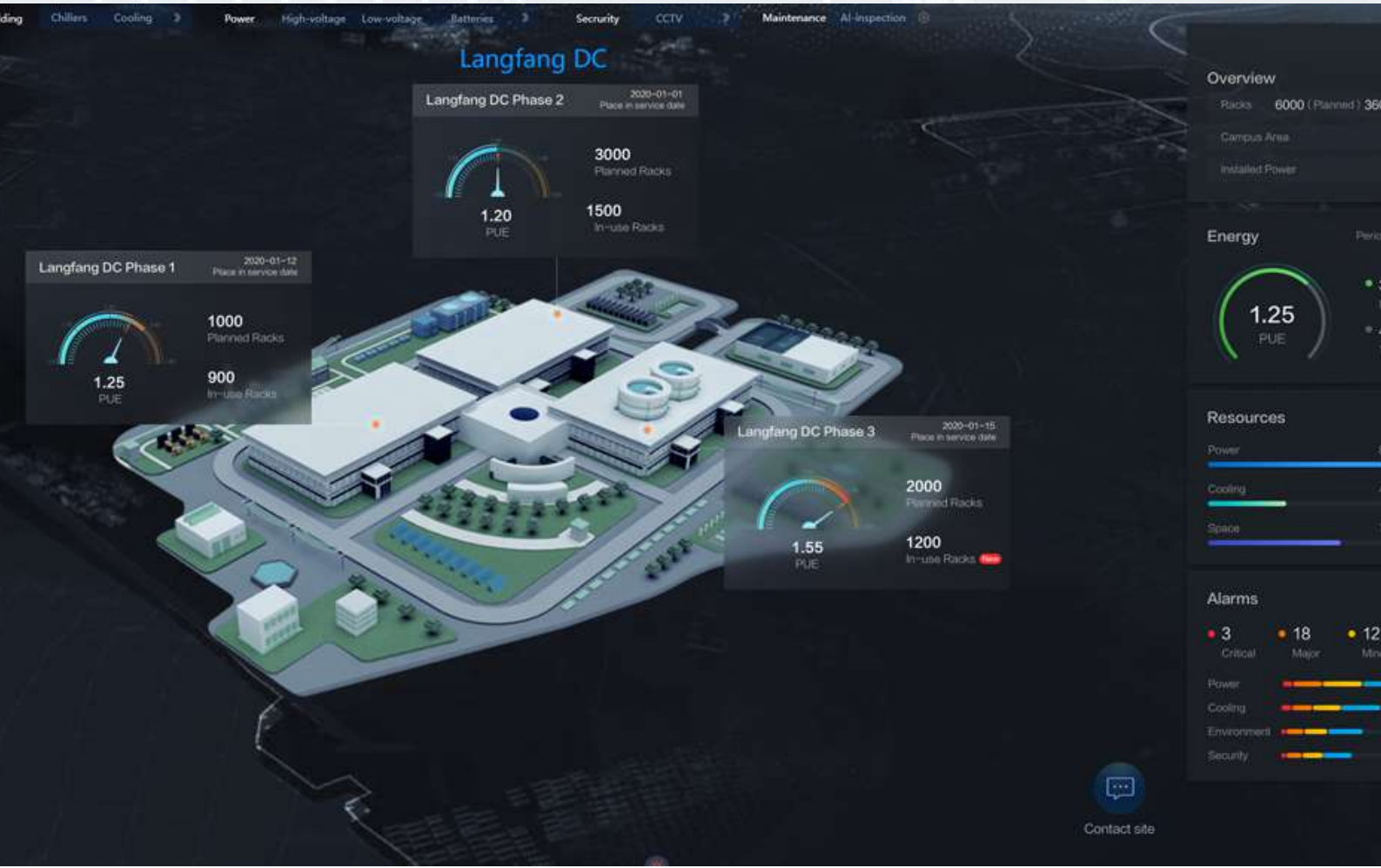
The Huawei Smart DC Management system includes on-premises, cloud, and ICooling@AI energy efficiency optimisation technologies.

Using AI and Big Data, the system provides unified management, efficient Operations & Management, and AI energy saving capabilities for data centres.

Centralised Monitoring & Control

Intelligent Operations

AI Powered



Contact us

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