![Logicalis — Architects of Change]

Critical Power

Critical Power Solutions & Technologies

Critical Power Overview

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

Expensive diesel consumption and substandard inverter options not only damage the business bottom line, but also pose a threat to properties and the environment.

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

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

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

Agriculture

Retail

Enterprise

Government

Why Logicalis for Critical Power?

Businesses have many options in the market for power solutions, ranging from small inverters, to complex power systems

Logicalis offers a true turnkey solution where you do not have to deal with multiple vendors for multiple components as is common in the South African market.

Our specialised approach includes:

- **Consultation**
- **Architectural Design & Sizing**
- **ROI Modeling**
- **Financing through our partners**
- **Implementation**
- **Dedicated Project Management**
- **Ongoing proactive monitoring through our global 24hr NOC**

Our partnership with Huawei Digital Power allows us to deliver an all-in-one, customisable solution for any business scenario.

Our Critical Power Partner

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

Starting with the smaller Power-M solutions which are ideal for small businesses and homes, up to the larger Luna units that can power up to 100 MWh and more.

Huawei Power-S is the ideal solution for most commercial and industrial scenarios. It is a seamless solar hybrid power & backup solution that can draw from multiple power sources, including the grid, diesel generators or solar.

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

Huawei provides us with a single vendor fully integrated solution that is completely modular. Typical competitor solutions contain up to 5 heterogeneous technologies. The fully integrated system from Huawei helps with automation, control and monitoring, as well as a modularity which facilitates live component replacements.

Modular or Prefabricated

Sustainable

Scalable

Efficient

Huawei Power-S
Solution Overview

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, generators and Grid, while ensuring a rapid switchover within 10ms.

- **Single Phase 3**
- **All-in-one cabinet**
- **Modular**
- **Easy installation**
- **Indoor / outdoor**

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.

30kWh - 100kWh

HUAWEI

Huawei Power-S
Solution Overview

Allows multiple inputs

Grid

Generator

Solar

HUAWEI

All-in-one
Easy installation , one vendor

Modular design
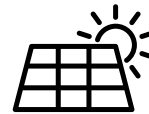Easy expansion

Hot swap batteries
Easy maintenance
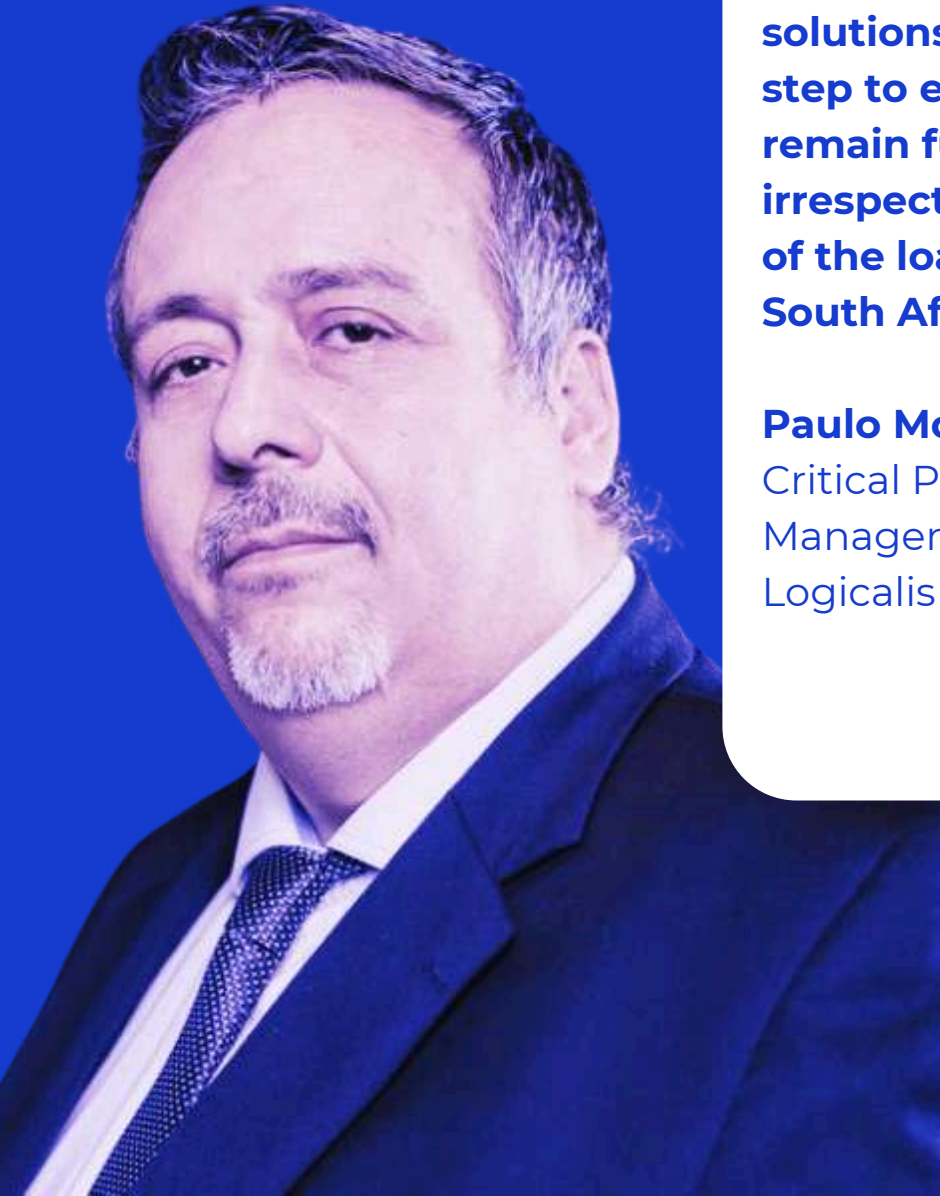
Seamless switching
No interruptions

Intelligent control
Monitor all inputs and outputs

Fast deployment
Minimal to zero civil work
Cables pre-integrated

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Our partnership with Huawei Digital Power puts us at the forefront of tackling the power crisis in South Africa.

Businesses cannot afford to wait for things to get better and our Critical Power solutions are the proactive step to ensure businesses remain future-proof, irrespective of the direction of the load-shedding crisis in South Africa.

Paulo Moreira
Critical Power Practice Manager
Logicalis South Africa

Huawei Luna
Solution Overview

Huawei Luna is a high performance outdoor power solution that can power industrial, utilities, and large scale business operations.

Using advanced **Smart String ESS** (Electricity Storage System) technology, the Luna power solution can meet rigorous energy demands without compromising on safety or battery longevity.
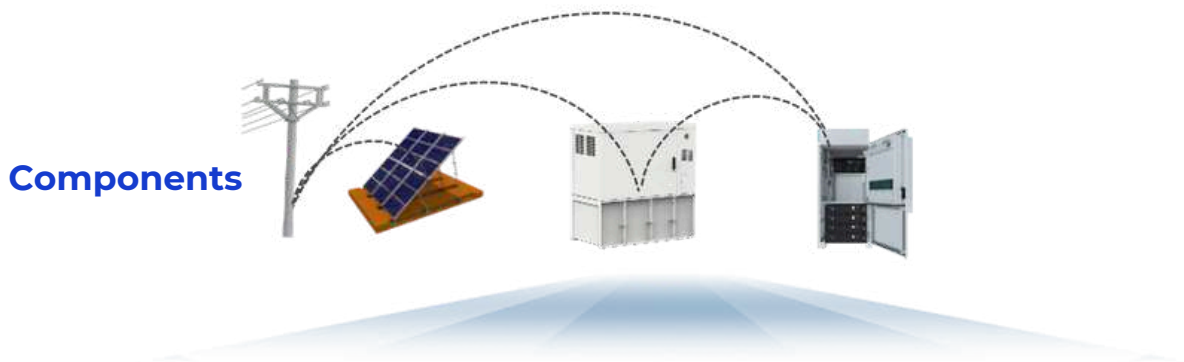
- **High-capacity energy storage**
- **Built-in fire suppression**
- **Central O&M monitoring**
- **Pre-built**
- **Efficient battery charging and usage**
- **Best for Grid-tied scenarios**

200kWh - 100MWh +

HUAWEI

Huawei NetEco

Huawei NetEco allows intelligent operations and maintenance monitoring, enabling maximum uptime and proactive tracking of energy usage and component status.

Network-wide intellgence

Intelligent power collaboration

Intelligent O&M management

Site digitalisation

Components

Sensors

Huawei NetEco

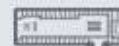| Visible		Manageable		Controllable	
Remote O&M					
Less invalid site visits	Fault locating	Battery test	Risk prediction	Remote control	
Energy AI scheduling					
Reliable power supply	Power grid self-adaptation	Solar access	Energy storage	Emergency power supply	
Intelligent anti-theft					
Higher asset security	Electronic lock	Camera	Software lock	GPS positioning	

Smart O&M

Comprehensive management of PV and plant status. Accurate detection reports.

Real-time management

Faults can be accurately located without manual inspection.

Huawei Data Centre Power
Solution Overview

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

Pre-fabricated solutions include Huawei's advanced series of data centre infrastructure products, pre-integrated intelligent temperature control system, and intelligent power supply and distribution system.

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

Huawei Data Centre Power Solution Overview

Modular data centres

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.

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Many of our clients have started seeing that the availability, security and sustainability of power solutions go hand-in-hand with ensuring a profitable and uninterrupted ICT operation.

As we expand our relationship with Huawei Digital Power, we aim to bring innovative and cost-effective power solutions to help businesses keep the lights on and their doors open.

Morne Laubscher
Chief Technology Officer
Logicalis South Africa

Huawei Data Centre Power Solution Overview

Smart Power Supply

Smart Power Supply solutions include a powerful range of Uninterruptable 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 and carbon footprint**
- **Higher system availability**
- **Long lifespan**

Huawei Data Centre Power Solution Overview

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.

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LOGICALIS
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