

iDC MPower Pro - 25-800kW

A truly growth on demand double conversion online modular UPS



iDC MPower Pro is a perfect “growth on demand” double conversion online UPS for medium to large scale datacenters and mission critical IT applications with a feature of scaling up to 800kW within a relatively small compact size, ensuring efficiency, reliability, and the ease of management.



Scalability

Optimize capital spendings with a high degree of flexibility to accommodate the changing needs



Efficiency

Minimize operational cost and maintain sustainability by reducing carbon emissions



Reliability

High level of reliability to minimize costly downtime



Ease of Management

User friendly intelligent monitoring tool and interface with easy access to detailed status information



Think it.
Plan it.
Own it.

Key Features

- Double conversion online technology
- Scalable modular design
- Power Capacity: 25-200kW per frame
- Scalable in parallel up to 4 frames and 800kW
- Maximum efficiency: Up to 99% efficiency in ECO mode, and up to 96% in inverter mode
- Green IGBT PWM control
- Lowest TCO to maximize availability
- Output power factor 1.0
- Optimized battery management and adjustable battery quantity
- Lithium-ion Batteries compatibility
- Transformerless UPS design

Transformerless



- 1 Communications
- 2 Uninterruptible Power Module
- 3 Input Circuit Switch
- 4 Maintenance Bypass Switch
- 5 System Static Bypass

Typical Application

- Government, NGO & utilities
- Financial institutions
- Manufacturer
- Education
- Aviation, transportation & cargo
- Hotel & retail
- Construction

Scalable Modular Design

A complete modularization design to suit a wide range of requirements as well as cater for adding or reducing modules without the need for calibration; and ultimately improve system reliability and internal redundancy.

Each iDC MPower Pro UPS module has a complete functional 25kW UPS, advanced wireless parallel control technology and smart communication protocols supporting online maintenance without affecting its daily operations.

New modules can also be added to the system without the need for calibration. Maintenance and expansion can be easily achieved.



25kW Uninterruptible Power Module (Hot-swappable)



25kW



25kW + 25kW



50kW + 25kW

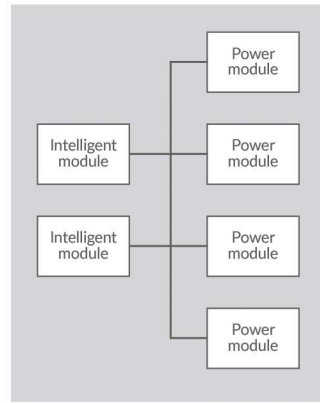


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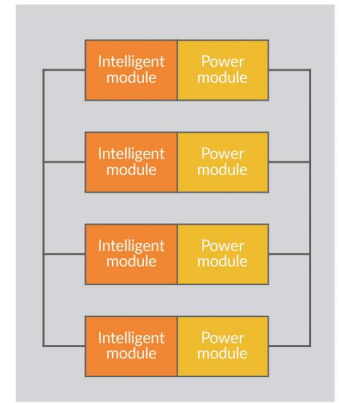
Leading Parallel Technology

With the support of parallel system connection, iDC MPower Pro allows a maximum capacity of up to 800kW and the effective use of an existing battery system to make a single removal of faulty battery set much easier.

iDC MPower Pro offers the most reliable N+X parallel redundancy structure not only improves the reliability of UPS power supply but also reduces a single point of failure.



Power Module Parallel Redundancy



System Level N+X Parallel Redundancy

Compact Size & Flexibility for Expansion

Model	Rating	Dimension (W*D*H) mm	Weight (kg)
iDC MPower Pro-25(75)	25kW	600*1100*2020	293
iDC MPower Pro-50(75)	50kW	600*1100*2020	321
iDC MPower Pro-75(75)	75kW	600*1100*2020	349
iDC MPower Pro-25(200)	25kW	600*1100*2050	396
iDC MPower Pro-50(200)	50kW	600*1100*2050	424
iDC MPower Pro-75(200)	75kW	600*1100*2050	452
iDC MPower Pro-100(200)	100kW	600*1100*2050	480
iDC MPower Pro-125(200)	125kW	600*1100*2050	508
iDC MPower Pro-150(200)	150kW	600*1100*2050	536
iDC MPower Pro-175(200)	175kW	600*1100*2050	564
iDC MPower Pro-200(200)	200kW	600*1100*2050	592

LCD Display

iDC MPower Pro provides easier access to detailed status information through the LCD touchscreen interface.



Display panel supports English, French, Portuguese, Spanish and Russian.



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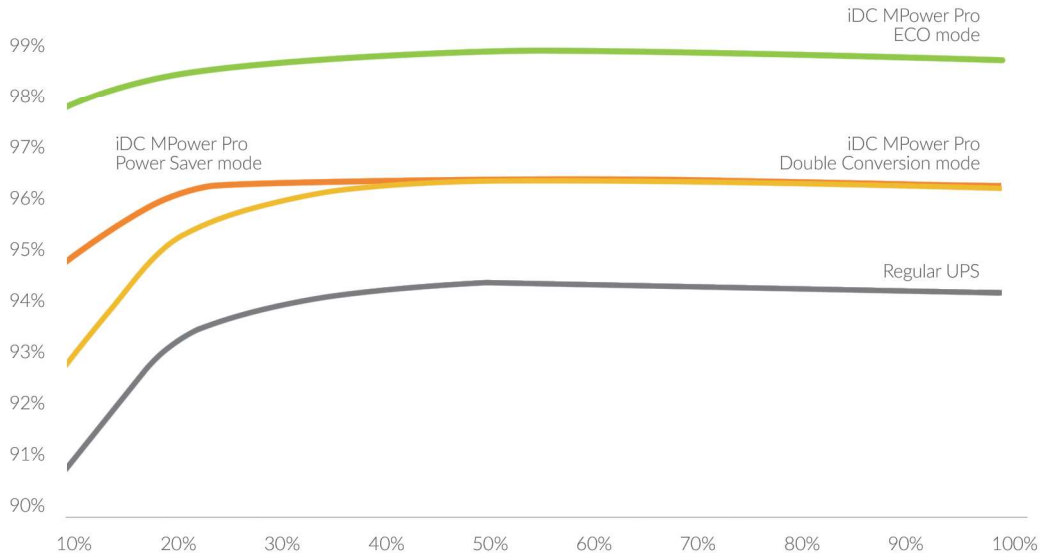
Green & Optimized TCO

Totally green with maximum energy efficiency and Lowest TCO

iDC MPower Pro delivers a maximum energy efficiency of up to 99% in ECO mode which minimizes the consumption of cooling system, and in return offering the lowest TCO (Total Cost of Ownership).

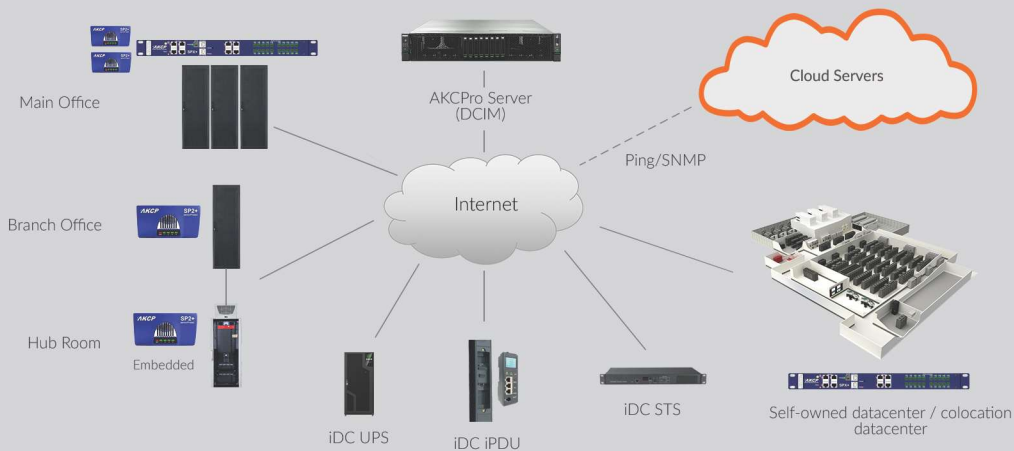
In addition to the energy saving feature, iDC MPower Pro enhances the reliability of the system by extending its lifetime and thus, reducing the total cost of ownership.

The power factor of 1.0 which maximizes the true available power and delivers more real power than others. Furthermore, the scalable nature of iDC MPower Pro means scaling up can also be achieved without taking up extra footprint.



DCIM Ready

Managing iDC UPS has never been more easier. Built-in template for monitoring real-time power consumption and operational status of iDC UPS has been engineered into our DCIM System which makes integration with DCIM System within seconds!



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Technical Specification

General

UPS output power rating	25-200kW, 1.0 power factor
Efficiency in double conversion mode	>96%
High efficiency ECO mode	>99%
Topology	Double conversion online technology, three-level bridge IGBT PWM control
External paralleling	up to 4 units with optimized parallel technology
Noise @1m, 25°C	<65 dBA in double conversion
UPS topology	Double conversion
Dimensions (W*D*H) mm	600*1100*2020 (75kW frame) 608*1010*2050 (200kW frame)
Degree of protection	IP20
Altitude (max)	1000m above sea level at 40°C

Input

Input wiring	3ph + N + PE
Rated input voltage	220/380, 230/400, 240/415V
Rated input frequency	50/60Hz, user configurable
Frequency tolerance	40-72Hz
Input power factor at 100% load	0.99
Input THD	<3%
Soft start capability	Yes

Battery

Battery type	VRLA, AGM, GEL, lithium-ion
Charging method	Optimized Battery Management or Continuous Float
Temperature compensation	Optional
Battery quantity	36 to 42 blocks. Default is 40 blocks
Battery start capability	Yes

Output

Output wiring	3ph + N + PE
Rated output voltage rating	220/380, 230/400, 240/415 50/60Hz
Output THD	<1.5% (100% linear load); <3% (100% non-linear load)
Permitted load power factor	0.8 lagging to 0.8 leading
Overload on inverter	10 min 125%, 60 sec 150%, 300 ms > 150%
Overload on battery	10 min 125%, 60 sec 150%, 300 ms > 150%
Overload on bypass	Continuous < 115%, 10 ms 1000%

Communications

Minislot	3 communication bays
Serial ports	Built-in host and device USB
Standard connectivity ports	5 building alarm inputs and a dedicated EPO
DCIM connection	Ready

Compliance with standards

Safety	IEC 62040-1
EMC	IEC 62040-2
Performance	IEC 62040-3
RoHS	EU directive 2011/65/EU

Accessories

MiniSlot connectivity (Web/SNMP, ModBus/Jbus, Relay)
External Battery Cabinet (EBC)
External Maintenance Bypass Panel

*Due to continuous product improvement programs, specifications are subject to change without notice.



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