



# IMS48

Medium Power | DC Indoor Systems up to 600A

# MODULAR + EFFICIENT

The IMS48 is a modular DC power system utilizing flexible cost effective modules for system configuration between 200 and 600 Amps, resulting in competitive solutions to suit custom requirements on short lead times. The IMS48 utilizes GE POWER high efficiency rectifiers along with adaptive rectifier management software to provide a highly reliable DC power system with minimal operational costs. The GE POWER Galaxy Pulsar Plus system controller provides monitoring and control of all system components via an RS485 digital bus. System status and parameter information are provided by a front panel display or remote network access.

## Basic operation

The IMS48 Power System provides a 48V DC power supply for telecommunications equipment with battery backup located either inside the same cabinet or on external stands. The batteries supply the loads during AC supply failure. Batteries are protected from damage due to deep-discharge by a disconnect contactor. Load shedding options can be used to extend critical service backup times. The rectifiers restart with the AC mains supply reconnection and supply the system loads while recharging the batteries at the same time. Correct battery charging is controlled by adjusting the battery float voltage with respect to the battery terminal temperature measured via thermal probes. Mid battery string voltage measurement is optional.



2000 x 600 x 600 mm cabinet

## DC power configuration

IMS48 DC power system options are available with a total capacity of 200A, 400A and 600A. The system comprises power distribution unit (PDU), system controller, rectifiers and batteries. The PDU provides DC load distribution, battery connection, isolation, monitoring and protection. Nonessential load disconnection during AC mains failure is optional. DC and AC distribution can be customized depending on specific customer / site requirements. All systems include the GE POWER Galaxy Pulsar Plus system controller providing sophisticated monitoring and control of the DC power system and capability for complete site management with customized monitoring and alarm options. Controller communication is either via front panel controls, local connection of a laptop or Ethernet interface – TCP/IP, FTP, Telnet, HTTP, SMTP are supported. GE POWER high efficiency CP rectifiers with individual rectifier capacities of 2000W and 2725W provide a reliable high quality power source.

### AC Connection Terminals

- Configurable for Star or Delta AC mains input

### AC Distribution Options

- AC mains isolation switch
- Individual rectifier isolation
- Surge protection
- Service socket

### Power Distribution Unit (PDU)

- 3U high, 19" module
- DC load distribution, breakers or fuses
- Battery connection/isolation
- Low voltage battery disconnect (LVBD) and shunt
- Maintenance bypass switch
- Optional priority and non-priority loads
- 100A and 200A ratings

### Load Distribution Unit (LDU)

- 3U high, 19" module
- DC load distribution, breakers or fuses
- Optional priority and non-priority loads
- 200A, 400A and 600A ratings
- Load connection only options (LDU)

### CP 2000/2725 TE Rectifier

- CP2000 TE: 2000W (37A) output
- CP2725 TE: 2725W (50A) output
- Front to back forced air cooled
- 1U high, 4 rectifiers per shelf
- Universal AC input
- Efficiency approaching 97%
- Digital communication (RS485)
- Active load current sharing
- Hot pluggable

### Galaxy Pulsar Plus Controller

- System monitoring and control
- Alarm history
- Multiple rectifier fail alarms
- Battery discharge testing
- Battery slope thermal compensation
- Battery current monitoring
- Optional battery symmetry monitoring
- Monitoring of ambient parameters
- Customer configurable alarms
- SNMP/Ethernet

### Battery Connection Module (BATT)

- High power battery connection units:
- 400A and 600A ratings
  - HRC fuses
  - Low voltage battery disconnect
  - Battery current shunt
  - Optional maintenance bypass switch
  - Optional bulk output fuse disconnect 1600A





High Efficiency



CO<sub>2</sub>  
Reduction



Long Life



Modularity



Minimal  
Maintenance



Small Footprint

## Key features

- Modular indoor DC plant
- 200A, 400A, 600A system capacity options @ 54.5 VDC
- Standard components for cost and lead time reduction
- Flexible distribution options to suit site requirements
- Battery connection, monitoring and protection
- Internal battery shelf or external battery rack options
- Sophisticated IP capable system controller
- Front access for installation and maintenance



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**ABB**

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reseller in EMEA

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