



# RECTIFIER

AC/DC RECTIFIER SYSTEM

48V 50A

Protect system parameters  
safety

# AC/DC RECTIFIER SYSTEM

## RECTIFIER

### AC DC Rectifier 48v 50a Rectifier System Description

Deutsche Power The advanced modular design makes the whole system is small, can provide sufficient power to meet the requirements of the communication system .

In line with the characteristics of the rack - mounted , suitable for all kinds of exchange, room, base stations , satellite communications, data communications, railways and power systems and other power fluctuations in a wide range of occasions .

### Features

- AC DC Rectifier 48v 50a Rectifier System has two parts, one is PFC adjust; the other is DC/DC transformation. All technology make the wide input voltage range (85v-290v).
- High efficiency rectifier modules used soft switch technology, while load rate 10%, then efficiency can be 91%, 50% load the efficiency can be above 96%.
- Adopted stepless current limiter technology, output current is continuously adjustable.
- AC DC Rectifier 48v 50a Rectifier System adopted stepless temperature control speed, it can reduce power consumption and prolong the life of the fan.
- EMI circuit provides a stable, reliable power to the load.
- Fan use stepless temperature control to reduce losses and noise.
- Dual input AC and DC load power supply is reliable. Sharing load, equalized-current imbalance < 3%.
- Optional Ethernet interface through SNMP and/or TCP/IP.
- Controller MCU.
- Digital signal collection via an internal RS485 bus; RS232 interface for remote operation.
- Hot-swappable technology, plug, and play, N+1 redundancy, extension slots.
- AC DC Rectifier 48v 50a Rectifier System using Low-pressure difference automatic current sharing technology between modules.
- Pairs of soft-switching technology and circuit topology.
- Dry contact alarm and out of the system function, more secure and more stable
- Stepless current limiting technology, the output current is continuously adjustable.
- Active power factor compensation technology, the power factor is 0.9999.
- 48V rectifier module SET1648
- When load rate is 10%, efficiency can reach 91%; when load rate is 50%, efficiency can reach above 96%.
- High conversion efficiency Communication Protocol
- Safe operation: With the host computer own password and dual authentication, greatly protect system parameters safety.
- Over-voltage and recovery voltage setting, boost charge setting.
- Parameter setting is comprehensive, detailed: slave module time setting, temperature compensation setting, output over/low voltage setting, boost charge time setting,



## TECHNICAL SPECIFICATION

| MODEL                 | DPST848                               | DPST1048 | DPST1648 | DPST2348 | DPST4850 |
|-----------------------|---------------------------------------|----------|----------|----------|----------|
| INPUT                 |                                       |          |          |          |          |
| INPUT Voltage AC      | 85V - 290V                            |          |          |          |          |
| OUTPUT                |                                       |          |          |          |          |
| OUTPUT Voltage DC     | 48V (42V-59V Continuously adjustable) |          |          |          |          |
| Output current (A)    | 15A                                   | 20A      | 30A      | 40A      | 50A      |
| Max. power (W)        | 800W                                  | 1000W    | 1600W    | 2300W    | 2900W    |
| Load regulation       | -25C ~ 65C                            |          |          |          |          |
| Voltage regulation    | <97% RH                               |          |          |          |          |
| ENVIRONMENT           |                                       |          |          |          |          |
| Operating temperature | <97% RH                               |          |          |          |          |
| Relative Humidity     | <0.5%                                 |          |          |          |          |
| DIMENSION & WEIGHT    | <0.10%                                |          |          |          |          |
| Dimension             | 103mm(W)*261mm(D)*88mm(H)             |          |          |          |          |
| Weight                | 2.6kg                                 |          |          |          |          |