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INV-LAVA-BYP 200

200A Bypass

Description

The system bypass module is built as a semiconductor switch with active electronic control circuitry and two thyristor modules. The bypass enables the system to be operated in OnLine mode where the load is supplied by inverters or in OffLine mode where the load is supplied by mains. The bypass module reports any error messages to the controller. For added protection a signal will be generated if excess temperature or fan failure occurs to automatically shutdown the system. The bypass has its own processor independent to the controller. If the controller were to fail or be disconnected the bypass would automatically switch over to the AC back up supply. This feature enables the service technician to safely work on the battery string or other dc source by simply disconnecting the controller and all the inverters. It should be noted that the bypass is not fitted with a mains fuse in order allowing the user fitted external fuse to be easily accessible.



- Overtemperature & fan failure detection
- Reports operation to system controller
- Mains & inverter input
- Redundant to controller
- Rated current 200A

Technical Data

General

| | |
|-----------------------|-------------------------------|
| Electrical Safety | EN 60950, VDE 0805 |
| Galvanic Isolation | 3.75 kVDC |
| EMC (Emission) | EN 50081-1, Curve EN 55022B |
| EMC (Immunity) | EN 50082-2 |
| Operating Temperature | -5 to +45 °C (non condensing) |
| Failure Report | via Controller |
| Current Capacity | 200A |

Electrical Connectors

| | |
|-------------------|--|
| Position | Front |
| Line Input | 5 high current terminal block 95mm ² |
| Inverter Input | 12 Phoenix power-combicon 3-pole |
| Controller IN/OUT | Binder round connectors 7-pole male, 4-pole female |

Fusing

| | |
|---------------|---|
| Short-circuit | External mains fuse, load limit integral = 125000A ² s by 230VAC |
| Overload | External output fuse, load limit integral = 125000A ² s by 230VAC, 2000A circuit breaker |

Housing

| | |
|----------------|--------------------------------|
| Casing | 19" rack with mounting flanges |
| Size | 19" x 4U x 360mm (W x H x D) |
| Weight | Approx. 15kg |
| Classification | IP 20 |
| Ventilation | Internal Fan |

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ET must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ET specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. Please note that your actual unit may differ from those shown.