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INV-LAVA-BYP 120

120A 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
- Rated current 120A or 200A
- Redundant to controller
- Mains & inverter input

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	120A

Electrical Connectors

Position	Front
Line Input	5 high current terminal block 50mm ²
Inverter Input	8 Phoenix power-combicon 3-pole
Controller IN/OUT	Binder round connectors 7-pole male, 4-pole female
Databus	2 x RJ45 S-UTP

Fusing

Short-circuit	External mains fuse, load limit integral =15000A ² s by 230VAC
Overload	External output fuse, load limit integral =15000A ² s by 230VAC, 120A circuit breaker

Housing

Casing	19" rack with mounting flanges
Size	19" x 3U x 201mm (W x H x D)
Weight	Approx. 7.5kg
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.