

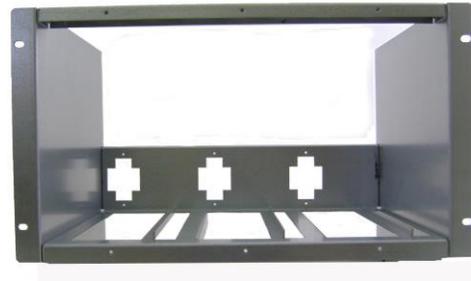
MT60-ANS POWER SUPPLY / BATTERY CHARGER

PRODUCT DESCRIPTION

The MT60-ANS series are rack mounting convection cooled power supply modules with 60Vdc output. They are 6U high with rear connectivity and are suitable as a standalone DC power source or to charge batteries. The mating connector for input and output is supplied separately so the units can be used with or without a 19" subrack as long as correct airflow is allowed for. These rectifiers are designed for high voltage Power Plants, Substations, Oil & Gas installations and many other applications.

Because the units are highly modular it is possible to configure systems with multiple units per rack for higher power or n+1 redundant applications. The robust construction with rugged metal handles make them ideal for industrial hot swap applications.

Each rectifier module receives its operating parameters via the internal RS485 communication bus. The password protected central monitoring unit controls and monitors each of the units, although the units will still operate with their default values if the monitoring unit is not present. Therefore the continuity of all connected loads and the charging of the batteries are guaranteed without any interruption.



APPLICATIONS

These power supplies are designed for a wide range of applications such as:

- Power supply for all medium to high power DC loads
- Rectifiers in DC systems with battery backup
- Telecommunication
- Industrial control systems
- Charging and buffering of stationary batteries in electrical power plants

KEY FEATURES

- Single Phase, 230Vac Input
- 60Vdc Output, 25A
- Protection for Input and output over voltage, under voltage, over temperature, phase reversal, phase failure, and short circuit
- "Hot plug-in" design with backplane connection
- High power density
- RS 485 Interface for Remote Control, Monitoring and Signaling.
- Digital display for output voltage, current and buttons for adjustment of values
- CE Certification for Safety and EMC
LED indication for module status reporting.



Input

Type	60V/25A
Model No.	MT60V/25A-AN-S
Input voltage	230Vac
Input current	9A
Input frequency range	45 Hz-65 Hz
Power Factor	≥ 0.99

Mechanical

Type	60V/25A
Model No.	MT60V/25A-AN-S
Weight approx.	9kgs
Dimensions (W/H/D)	263x139x325
Type of enclosure / Protection class	IP 20
Colour (front panel)	Grey

Output

Nominal output voltage (Vnom)	60V DC
Adjustable output voltage range	51-76V DC
Voltage Stabilization Accuracy	± 0.5%
Current Stabilization Accuracy	± 1 %
Nominal output current (Inom)	25A DC @ 68V
Nominal output power at 60 V DC	1500 W
Efficiency	≥ 95 %
Charge characteristic line	IU Characteristic according to DIN41772/DIN41773
Default value of the charging voltage	51-76 V DC
O/p Overvoltage Vo> (factory set)	72V DC
Voltage ripple	≤ ± 0.5%
Dynamic accuracy of the charging voltage	<3% of Venom at load change from 10% -90%-10% ,Transient time <50 ms
Short circuit protection	15% - 30% of Inom when in short circuit
Parallel operation	Yes .Current Sharing ± 3%
Internal decoupling at the output	Yes ,In positive output line

Technical Data

Communications interface	RS 485
Ambient temperature	Operation: -20° to +50° C , Storage:-40° to +60° C
Humidity	≤ 95 % RH
Cooling	Air Natural
Climatic conditions	IEC-68-2-2, IEC-68-2-3, IEC-68-2-6
Max. installation altitude	≤2000 m
Audible noise	< 50 db
Connections	AC Input DC Output and Signalization at rear
CE conformity	Yes
Compliance to EMC standards	EN61000-4-2, EN-61000-4-6, EN-61000-4-3, EN-61000-4-12
Air Pressure	70-106 Pa
Insulation Resistance	Input Chassis & Output > 10M Ohms at 500VDC
Dielectric strength	2000V between Input, Output & Chassis for 1Min.