

Rectifier D xxxVDC/yyyADC-Bwrug- SW

Input: 3x400VAC

Output: 48/60/110/220VDC (8000W)

Product Description

Power supply modules of series are compact battery charging rectifiers with an optimized switching principle and rear side connectivity. The rectifier can be used in all DC applications with or without battery.

Due to the modular concept and a high scalability the user is able to equip the power supply with additional modules according to his actual power profile. The chargers are very user-friendly and can be swapped and upgraded during operation.

The devices get their operation parameters via the system wide CAN communication bus. After a successful login a central monitoring unit controls and monitors to the devices. In case of CAN bus interruption the modules operate continuously with internal default values. Therefore, the supply of the connected loads and the charging of the batteries are guaranteed without any interception.

The rectifier needs a 3-wire mains connection without neutral.

Key Features

- >>19",3U
 - >>Three-phase input without neutral, with sinusoidal input current(PFC)
 - >>Input overvoltage protection
 - >>"Hot-Plug-In" design with backplane connection
 - >>High power density
 - >>CAN-Bus interface
 - >>Digital display for output voltage, current and adjustment values
 - >>Front –to-rear airflow with temperature controlled fan cooling
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Technical Data

Nominal input voltage	3x400VAC+/-20%
Nominal input current	13.1AAC /phase
Input frequency range	47-63Hz
Total harmonic distortion	<12%
Efficiency	≥90%
Internal input fusing	No;External fusing required (16A gL)
Nominal output voltage	216VDC (48VDC, 60VDC, 110VDC)
Nominal output current	37ADC (166ADC, 133ADC, 74ADC)
Nominal output power	8000W
Charge characteristic line	IV characteristic line according to DIN41772/DIN41773;power limited
Adjustable output voltage range	184-270VDC(1.7-2.5V/cell;lead acid battery)(40,8-60VDC, 51-75VDC, 91,8-135VDC)
Default value of the charging voltage	245VDC(2.27V/cell;lead acid battery) (54,5VDC, 68VDC, 123VDC)
Voltage ripple	≤200mVpp
Dynamic accuracy of the charging voltage	<3%Vnom at load changes between 10%-90%-10% Inom;correction time ≤1ms
Short circuit protection	sustained short circuit proof;1xInom
Parallel operation	Yes;current sharing ≤10%Inom;slope down output voltage line
Internal decoupling at the output	No ;external decoupling diode required (hot-plug-in functionality)
Internal output fuse	No
LED signalling	Operation(green), Vo OK(green), Io>(yellow), Vo>(red), Alarm(red)
Main processor	16Bit Fujitsu
Isolated signalling contacts	"General fault";isolated relay contact COM/NC/NO
Communication interface	CAN-Bus, proprietary protocol
Ambient temperature	Operation : -20°C to +55°C, storage: -40°C to +85°C
Cooling	Fan cooling (temperature-regulated;monitored)
Climatic conditions	According to IEC 721-3-3 class 3K3/3Z1/3B1/3C2/3S2/3M2
Max.installation altitude	≤1500m
Audible noise	<50dBA
Type of construction	19",3U
Dimensions (W/H/D)	483/133/420mm
Weight	Aprox.28Kg
Type of enclosure/Protection class	IP20(front panel)/1
Colour (front panel)	RAL 7035,black imprint
CE conformity	Yes
Compliance to safety standards	EN60950-1; VDE0100 T410; VDE0110; EN50178; EN60146
Compliance to EMC standards	EN55011/22 class "B"; EN61000-4T2-5
Connections	AC input, DC output and signalization:DIN41612-M-connector