22.5 Amp Rectifier

UNIPOWER Telecom's new Magellan (RMX) Series rectifiers provide 22.5 amperes at 54.4 VDC for charging 48V lead-acid batteries or for driving loads directly. The shelf is only one rack space (1.72 inches) high and the rectifier is field replaceable from the front, without the need for disconnecting from system wiring. The rectifier voltage can be adjusted over a wide 44 to 58V range by means of a front-panel potentiometer or a remote analog control voltage. The system mounts in a 19 rack or can mount in a 23 rack using extender brackets.
Power density is 3.3 volt-amperes per cubic inch and efficiency is 86%. The unit has an AC input voltage range of 85 to 265 V with input power factor correction to 0.99, giving less than 5% total input current harmonic distortion. Total regulation (line and load) is 1.0%. The input has a Class B EMI filter. These rectifiers are ideally suited for mini/micro sites and networking applications.
Other features of the Magellan Series include green LED indicators for AC and DC power good, overvoltage protection on outputs, overtemperature protection, remote sensing, single-wire active load sharing capability with another RMX rectifier, and current-limiting overload and short circuit protection.
Interface control and monitoring signals include AC power good, DC power good, remote output adjust and enable. The Magellan system can interface with available controllers from UNIPOWER Telecom or operate on a stand-alone basis.

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