I/O Control Power

MC-PWR-RM

The MC-PWR-RM is part of OSSI's Complete PSIM Solution. It utilizes Electronic Security Devices SPS-6.5M4 series power supply in a OSSI custom enclosure to power the MC-ENC-RM. The power supply was specifically selected because of it's near linear performance characteristics. Clean Linear performance is especially important when utilizing the MLC-32I analog input capability. The universal input from 85Vac to 260Vac allow them to be used anywhere in the world without adjustments to the power input. The power supply is fully self contained and isolated from the line and ground to EN1650 world safety standards. The power supplies are engineered with a power limiting circuit that allows for battery float charging to occur without on / off noise on the power output. The battery is protected with a diode for reverse polarity connection and an automatic resetting circuit breaker for over current protection. The power supply supports back up batteries from 4 Amp Hours to 200 Amp Hours. Form C relays are provided on board for alarm indication of low batteries as well as AC power fail. The power supply has a 3rd relay on board to disconnect battery power at end of life to avoid battery damage or fire due to extremely high current draw from low battery voltage.

ENCLOSURE

- Powder coated 14ga steel construction
- Removable door for increased flexibility when terminating
- Support for up to (2) ENC-RM Racks for Input / Output Logic Controllers

POWER

- Clean Linear Performance
- Universal Input: 85Vac to 264Vac
- Self Contained
- Precision Output Charging Regulation
- On Board Outputs are Class II Power Limited with PTC Circuit Breakers
- Indication LED's for AC and DC Power
- AC Fail form C Contacts
- Low Battery Indication Form C Contacts
- Battery Cut Off Relay for Deep Discharge Prevention
- Battery Float Charging for Rapid Recharging
- Short Circuit and Thermally Protected
- The Internal Power Supply is UL and CUL Listed: UL603, UL294,UL1481and NFPA72 EN60950, and EN61204-Class A Compliant

SPS-6.5 M4 SPECIFICATION

AC Input 85-260VAC/47-63Hz/150W

Universal AC input does not require any selection switching.

Earth ground terminal must be connected to earth ground.

AC LED Indicator .....LED Green

AC Line Fuse Link - Inside unit for catastrophic failure.

This fuse is not field replaceable. A blown fuse would be

indicated by the AC LED off with AC power applied. DC Output: 2P Terminal block 28-12AWG

Nominal Voltage 12Vdc

Typical Voltage 13.65Vdc

Total Output continuous 6A

Class II PTC Circuit Breakers rating 720MA

Class II PTC circuit breakers rating 1.50A

Typical Output Ripple & Noise

Peak to Peak 25MV

Current Overload Protection

Electronic & PTC's

Battery PTC Protection.....6A

Main Power DC LED adjacent to battery connector... Red

Switching Frequency 27KHz

Supervisory Functions:

AC Fail Contacts: 3P Terminal block – annunciates

AC fail – "C" contacts "NO, O, NC" ...2A/120VAC

Three position AC fail terminal block is marked "NO, C, NC"

Low battery Output: 3P Terminal block – annunciates

Low battery "C" contacts "NO, O, NC"2A/120VAC

Low battery trip.....11.0 VDC

Battery Disconnect trip points 12V 10.0

Battery Cutoff internal relay contacts 15A

The battery charger is precision set to float charge 12V sealed, gel, AGM, or wet lead acid batteries.

The (AH) Amp hour capacity may be anything between 4AH and 200 AH.