

OMNISTAR® GX2

GX2-PSAC/GX2-PSDC

Power Supplies



The GX2-PSAC and GX2-PSDC modules are installed in the rear of the Omnistar GX2 Housing (GX2-HSG) where power connections are easily made. Integrated fans provide localized cooling. A tri-colored LED on the rear of the unit indicates operating status. An additional tri-colored status LED is provided for each power supply on the front of the Control Module (GX2-CM100B). Though one power supply can power an entire housing, the GX2-HSG accommodates two power supplies for true power source redundancy. When two power supplies are used, the load is shared between both supplies. If one supply fails, the other immediately picks up the additional load. For increased flexibility, the second power supply can be either AC or DC depending on system needs.

The GX2-PSAC10B and GX2-PSDC10B are power supply modules that provide AC and DC voltages for the OmniStar GX2 optical broadband transmission platform.

Benefits

- Auto sensing input for 110 or 230 Vac applications (AC only)
- Provides regulated +5, +12, and +3.7 Vdc to the shelf through the back-plane
- Integrated fans for localized cooling
- Power factor corrected (AC only)
- Dual power supply option utilizes load sharing for increased reliability
- Field replaceable fuses (AC only)
- Microprocessor control and monitoring of critical functions
- Module status LED for status indication
- Downloadable firmware
- True plug-n-play operation



Rear view of fully-loaded OmniStar GX2 with dual AC power supplies

SPECIFICATIONS

Power Requirements

(GX2-PSDC10C)

| | |
|-------------------|----------------------------------|
| DC Voltage Input | |
| Range | 36 to 75 Vdc |
| DC Current: | |
| @ 36 V | 10.6 Amps Maximum with Full Load |
| @ 75 V | 5.10 Amps Maximum with Full Load |
| Power Consumption | 385 Watts Maximum with Full Load |
| Efficiency | 75% @ Max. Load |
| Surge Protection | Electronic |
| Fusing | Internal 20 Amp Fast Blow |

(GX2-PSAC10C)

| | |
|----------------------------|---|
| AC Voltage Input Range | 105 to 264 Vrms, Auto Sensing |
| AC Voltage Frequency Range | 47 to 63 Hz |
| AC Current: | |
| @ 115 V | 4.2 Amps rms Maximum with Full Load |
| @ 230 V | 2.0 Amps rms Maximum with Full Load |
| Power Consumption | 420 Watts Maximum with Full Load |
| Efficiency | 69% @ Max. Load |
| Surge Protection | Tranzorbs, Gas Tubes, MOV |
| Fusing | Two 10 Amp Slow Blow at Power Input Connector |

SPECIFICATIONS

Output Power

(GX2-PSAC10C & GX2-PSDC10C)

| | |
|-----------------|--|
| Output Voltage: | |
| +5.1 Vdc Range | 5.05 to 5.15 Vdc Nominal with Max. Load @ +25C |
| +12 Vdc Range | 11.85 to 12.15 Vdc Nominal with Max. Load @ +25C |
| +3.7 Vdc Range | 3.65 to 3.75 Vdc Nominal with Max. Load @ +25C |
| Output Current: | |
| +5.1 Vdc Range | 17.9 Amps Maximum with Max. Load @ +25C |
| +12 Vdc Range | 15.5 Amps Maximum with Max. Load @ +25C |
| +3.7 Vdc Range | 19.2 Amps Maximum with Max. Load @ +25C |

General

(GX2-PSAC10B & GX2-PSDC10B)

| | |
|-----------------------------|---|
| Operating Temperature Range | -20° C to +60° C (-4° F to +140° F) |
| Storage Temperature Range | -40° C to +80° C (-40° F to +176° F) |
| Dimensions | 7.7" W x 2.2" H x 11.7" D (19.6 cm x 5.6 cm x 29.7 cm) |
| Weight | 8.0 lbs. (3.6 kgs.) |
| Mounting | GX2-HSG* Rear Panel |

| Model Number | Description |
|--------------|-----------------|
| GX2-PSAC10C | AC Power Supply |
| GX2-PSDC10C | DC Power Supply |

For more technical information regarding the latest in optical broadband transmission technology from Motorola, refer to the OmniStar GX2 data sheets.

