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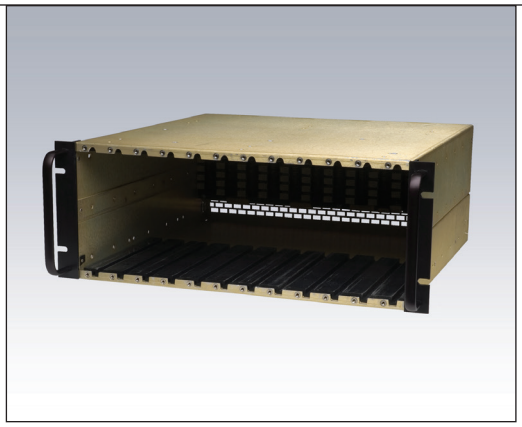
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# Elgar ReFlex Power™ Series

## Universal 12 Slot Mainframe

- Worldwide input voltage capability
  - 270 VDC input with relay control
- Input power and connectors for system expansion
- Fully configurable
- No active components
- Power output up to 3600W / 6000W



The ReFlex Power System™ Mainframe consists of 12 fixed pitch "slots" for insertion of AC, DC or Active load modules and the Controller which are one, two, or three "slots" wide.

Very compact in size, 4RU by 17.00" deep, the mechanical design is ruggedized for harsh environments including mobile applications as well as general-purpose industrial and laboratory rack-mount ATE.

The Mainframe connectors on the rear panel facilitate the connection to the AC mains and provide for extending the system to multiple frames, (up to eight). There are no active components in the mainframe, therefore once installed, would not normally have to be uninstalled. It also accommodates the easy populating of the user system with the various power assets. The mainframe also contains the proprietary RFP backplane.

Any RFP module can be installed in any slot(s) in the mainframe. There is no Slot 0 designated in the power system for the controller. It can be installed in any location depending on the users desired configuration.

The Mainframe is available in three versions. The basic rack mount version, which installs flush with the front of a cabinet, a version which is set back by 4.0" to allow for cable space at the front of the cabinet, and a version which removes the front panel mounting ears to facilitate installation in portable systems. The setback version includes an optional removable front dress panel.

| Two Slot 1000W / 1250W DC Power Modules | |
|---|---|
| **Mainframe Model Number** | **Description** |
| RFP-M0000-001-0000 | 12 Slot Mainframe |
| RFP-M0000-001-1E00 | 12 Slot Mainframe with 90 ° input connector |
| RFP-M0000-001-1J00 | 12 Slot Mainframe with 90 ° input connector. No rack ears |
| RFP-M0000-REC-0000 | 12 Slot RECessed Mainframe with front dress panel |
| RFP-M0000-REC-1E00 | 12 Slot RECessed Mainframe with front dress panel and 90 ° input connector. |
| RFP-M0000-REC-2J00 | 12 Slot RECessed Mainframe with front dress panel and 90 ° input connector. No rack ears. |
| RFP-M0000-REC-1K00 | 12 Slot RECessed Mainframe with front dress panel |
| 5609184-01 | 12 Slot RECessed Mainframe with DC input relay connector |
| 5380059-01 | Chassis interconnect cable 36 inches ** |
| 5380059-02 | Chassis interconnect cable 97 inches ** |
| 5380059-03 | Chassis interconnect cable 135 inches ** |
| **Mainframe Optional Accessories** | |
| **Part Number** | **Description** |
| 5380059-01 | Chassis Slot Blanking Module |
| | **AC Power Cords** |
| 5380317-01 | 2 M unterminated Power Cord w/ mainframe connector mate |
| 5380554-01 | 2 M unterminated Power Cord for single-phase 125V, 20A connection |
| 5380555-01 | 2 M unterminated Power Cord for single-phase 250V, 20A connection |
| 5380556-01 | 2 M unterminated Power Cord for three-phase 120V/208V, 30A connection |
| | **AC Mating Connector Kit** |
| 5380318-01 | AC Input mainframe connector mate |

All specifications are subject to change

# Elgar ReFlex Power™ Series

| Common | |
|---|---|
| Module Interface Backplane | Slot Positions: 12 slots Multi-module control interface |
| Configuration Guidelines | Up to 8 Chassis may be interconnected. Paralleled AC, DC and Load modules must be in adjacent slots and be like modules AC modules to be configured for multi-phase operation must be in adjacent slots. |
| Regulatory | Certified to UL 61010-1, CSA C22.2 No. 61010.1 and IEC/EN 61010-1.<br>Compliance with EN61326 and FCC 21 CFR, Subpart J<br>CE Mark is to EMC and LVD |
| **Input** | |
| Universal Input | AC 1 phase:115/120/200/208/230V ±10%<br>AC 3 phase: 115/200 or 120/208V ±10% delta and wye<br>AC 3 phase: 230/400V ±10% wye – neutral<br>AC Voltage Range: 103.5V to 253V<br>DC Voltage Range: 210V to 300V (314V for 2 sec.) Power Factor: ≥0.95 |
| Frequency range | 47Hz to 63Hz, DC |
| Input Connector | Amphenol, DL3102A24-10P |
| Mating Connector | Amphenol, DL3106A24-10P, Input cable and mating connector kits available |
| **Environmental (Extended range available)** | |
| Operating Temperature | -10° C to 50° C |
| Storage Temperature | -40° C to 70 °C |
| Humidity Range | 95%, non-condensating |
| Altitude | up to 2,000 M |
| Shock and vibration | Class 3 Mil-PRF-28800F |
| **Physical : Module Sizes** | |
| Dimensions Single Slot | 1.4" (35.6mm) W - 6.75" (171.5mm) H - 15" (381 mm) D |
| Dimensions Dual Slot | 2.8" (71.1) W - 6.75" (171.5mm) H - 15" (381 mm) D |
| Dimensions Triple Slot | 4.2" (106.7mm) W - 6.75" (171.5mm) H - 15" (381 mm) D |

## Common ReFlex Power Applications

### Rackmount ATE Systems
High power density, a large number of output channels and 16-bit resolution, all under the control of a single Ethernet controller, greatly simplifies ATE system integration. The wide variety of voltage and current combinations and power density, created by up to 12 separately programmable DC channels in a compact 4U system, makes RFP the most compact ATE power system on the market. Combining this with the RFP AC and load channels in the same chassis and under the same controller, RFP can elegantly satisfy your most demanding ATE system power stimulus requirements.

### Product Development
Testing and burn-in of aircraft flight hardware, DC-DC converters, automotive electronics and semiconductor components are just a few applications currently being tested with RFP. From simple DC voltage set points and AC sine waves to complex waveforms and triggers, RFP keeps pace with your product development power stimulus challenges.

### Aerospace Testing
ReFlex Power is ideal for testing all types of flight hardware and aircraft auxiliary systems. AC power modules can be operated in single or three phase mode, and expanded from 875 VA single phase to 2,625VA three phase, or even 5,250 VA. By combining variable frequency AC power signals from 45 to 5,000Hz with DC assets in a single 4U mainframe, most modern avionics power stimulus can be delivered.

### Process Control
Whether you are driving magnets for controlling ion beams for the manufacture of semiconductors or driving a current through electrolyte for precise control of a plating process, RFP is your ideal process control choice. RFP's small footprint with flexible configuration of DC, AC and load modules can solve the most complex process control challenges.

### Research
A research environment presents some of the most demanding requirements on your test instrumentation. RFP's flexible sequencing and triggering supports your research needs. All too often, equipment that meets the needs of your current project does not meet the needs of your next project. RFP with its modular design protects your capital assets. The RFP architecture allows you to change to different DC voltage and current combinations, add AC and load modules and parallel and phase-lock modules. This allows RFP to support all your current and future laboratory needs.

All specifications are subject to change

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