



# Communications Power

PRODUCT SELECTION GUIDE

# 2007

# Global Communications

- Worldwide sales of \$150 million
- London Stock Exchange listed
- Design, engineering & sales operations in 14 countries
- Technology leading product development group

## Engineering

We have one of the most powerful design teams in the power supply industry. Situated across three continents, we have over thirty power engineers focused on designing new power supplies for our target customers.

- Design sites in North America, Europe and Asia
- Reliable design – component safety and lifetime derating, DVT, HALT testing
- Modified standard & customer specific engineered solutions
- Innovative, leading edge and low cost design



## Manufacturing

All of our new product releases are manufactured in our factory in Kunshan, China. This low cost, high volume, ISO9001 facility enables us to meet the price demands seen in the communications market.

- High volume low cost manufacturing capability
- 20 years of experience in Asian manufacturing
- Asia centric material control
- Flexibility from low volume local capabilities



## Global Support

XP Power has the ability to manage a program from design to production across the globe. Our regional sales and applications teams are available to support customers throughout North America, Europe & Asia.

- Internationally networked sales support team
- Global logistics and local continent stocking capability
- Strategic customer management offering beta sample availability
- EMC, immunity & thermal verification resources available to customers



## Quality

The nature of the communications market demands high quality reliable product. To ensure this quality XP Power products undergo rigorous testing as part of the design cycle. Our integrated management system covers all processes to ensure our end goal of consistently delivering reliable solutions to our customers.

- ISO9001:2000 approval
- Compliant to RoHS & WEEE directives
- SMTL status for safety agencies
- Regular production verification process



# Product Overview



## ECM40-100:

- 40/60W 2" x 4" footprint
- 100W 2.5" x 4.5" footprint (3" x 5" option)
- Robust design, low component count
- -48V DC input models, ETSI & NEBS compliant
- Award winning design

<b>ECM40</b>	<b>40W</b>	- 1-3 outputs
<b>ECM60</b>	<b>60W</b>	- 1-3 outputs
<b>ECM100</b>	<b>100W</b>	- 1-4 outputs
<b>DCM60/100</b>	<b>60/100W</b>	- -48V DC version



## EMA212:

- World's most power dense 3" x 5"
- 212W output power 85-264 VAC
- 5V standby & 12V fan supply
- Power good, ROF & active current share
- -48V DC input model, ETSI & NEBS compliant

<b>EMA212PS12</b>	- 12V/16.7A
<b>EMA212PS24</b>	- 24V/8.3A
<b>EMA212PS48</b>	- 48V/4.0A
<b>DMA212</b>	- -48V DC input version



## MFA350:

- World's smallest 350W PSU
- 10.7 W/in<sup>3</sup> power density
- 5V standby & 12V fan supply
- Power good, ROF & active current share
- -48V DC input model, ETSI & NEBS compliant

<b>MFA350PS12</b>	- 12V/29.2A
<b>MFA350PS24</b>	- 24V/14.5A
<b>MFA350PS48</b>	- 48V/7.3A
<b>DFA350</b>	- -48V DC input version



## MFA350-H:

- 350W hot swap solution
- Suitable for 1U & 2U requirements
- Built-in ORing FET
- 5V standby & 12V fan supply
- Power good, ROF & active current share

<b>MFA350PS12-H</b>	- 12V/29.2A
<b>MFA350PS24-H</b>	- 24V/14.5A
<b>MFA350PS48-H</b>	- 48V/7.3A
<b>DFA350-H</b>	- -48V DC input version



## MFA600-H:

- 600W hot swap solution
- Suitable for 1U & 2U requirements
- Built-in ORing FET
- 5V standby & 12V fan supply
- Power good, ROF & active current share

<b>MFA600PS12-H</b>	- 12V/50A
<b>MFA600PS24-H</b>	- 24V/25A
<b>MFA600PS48-H</b>	- 48V/12.5A
<b>DFA600-H</b>	- -48V DC input version



## GFR1K5:

- Compact 1U form factor
- 1.5 kW hot plug modules
- 4 per rack for 6 kW
- PoE rack option
- I<sup>2</sup>C bus interface

<b>GFR1K5PS12</b>	- 12V/125A
<b>GFR1K5PS24</b>	- 24V/62.5A
<b>GFR1K5PS48</b>	- 48V/31A
<b>DFR1K5</b>	- -48V DC input version



# Designing Power for a New

The communications market is demanding the need for smaller, more efficient, fully featured power products. This is being driven by the requirement to fit more system functionality into smaller spaces with greater processing power. Products have been designed for applications in networking equipment, VoIP systems, wireless LANs, servers, SANs and broadcast. Our global strategy of understanding our target customers has led us to develop new product ranges with certain common themes in mind.

**AC & DC Input Versions**  
High Efficiency  
**1U Height**  
Fully Featured  
High Power Density

## Product Highlights

- ECM40/60 award winning design for low power solutions
- World's smallest 100W convection cooled PSU – ECM100
- World's most power dense 3" x 5" PSU, 212W – EMA212
- Flexible 350W product, chassis or hot plug versions – MFA350
- 600W hot plug PSU, available Q3 2007 – MFA600
- 6000W 1U rack system, 1.5kW modules – GFR1K5

## Applications

**Application:** Wireless telephony infrastructure  
**Product:** 1200W DC/DC modular power shelf

- Outputs: 12V at 33A per module
- N+1 redundant, built-in ORing diodes
- Rear connect 48V telecom input
- FCC class B, Bellcore GR-1089



**Application:** Professional sound studio desk  
**Product:** 350W hot plug power module

- Outputs: 5V at 50A, 3.3V at 35A, 3.3V at 5A
- Blind mate, hot plug connection
- ORing diodes for redundancy
- Field replaceable fan filters



**Application:** Optical networking  
**Product:** Hot plug 200W dual output

- Outputs: 5V at 40A, 12V at 2A
- ORing FETs for redundancy
- Active current share
- AC & DC input versions



**AC Power**

**DC Power**

**ECM40/60**

**ECM100**

**40/60 W**

**100 W**

AC input: ECM40/60  
DC input: DCM60

AC input: ECM100  
DC input: DCM100

## Engineered Solutions

XP Engineering Services offer solutions to power requirements that cannot be satisfied by our standard product range or where customers require a more integrated product. Custom output combinations, unique control/status signals and specific mechanical packaging can be implemented by our engineering teams to allow customers to focus on their core product.

- Total customer specific solutions
- Custom mechanical & electrical design
- Thermal modelling and environmental testing
- 3-D modelling speeds design process
- Full legislative verification ETSI, NEBs, EMC/Immunity

# Generation

EMA212  
Power

212 W



AC input: EMA212  
DC input: DMA212

MFA350

350 W



AC input: MFA350  
DC input: DFA350

MFA350-H

350 W



AC input: MFA350-H  
DC input: DFA350-H

MFA600-H

600 W



AC input: MFA600-H  
DC input: DFA600-H

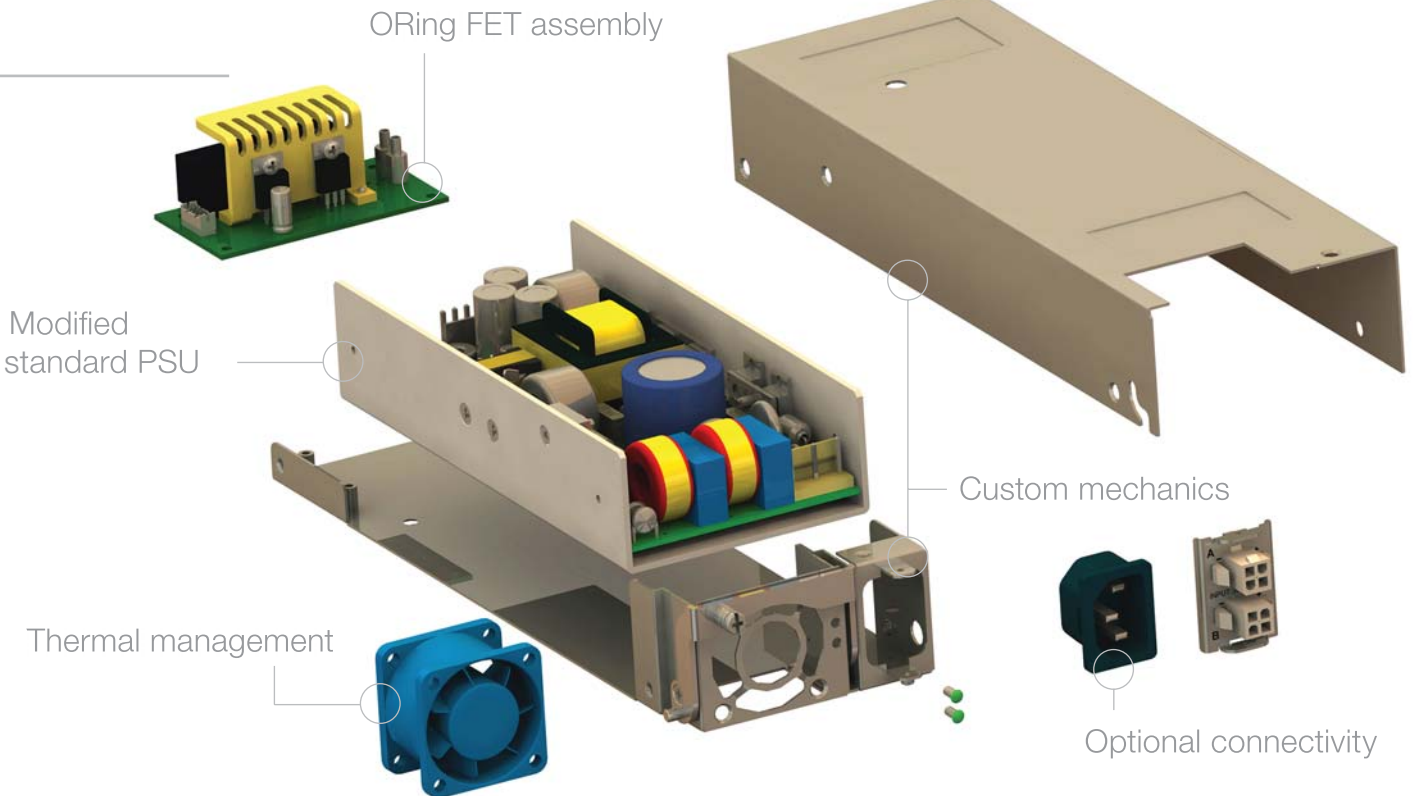
GFR1K5

1500 W



AC input: GFR1K5  
DC input: DFR1K5

Hot swap



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