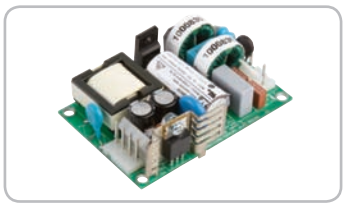
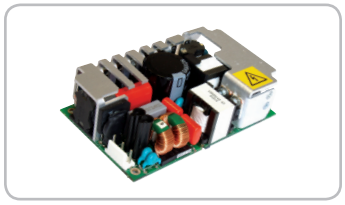
XP Power





Communications Power

PRODUCT SELECTION GUIDE 2011/12

Product Highlights

Low Power AC-DC

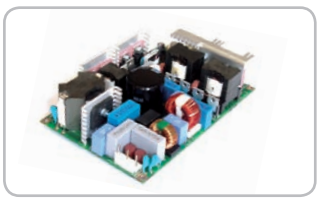
- 20 W to 175 W
- World Smallest PSU's - 2 x 3" Format
- Green Mode - High Efficiency
- <0.5 W No Load Power Draw
- 48 VDC Input Modules

ECM	40-140 W	1-4 Outputs	Open-Frame
ECS	45-100 W	Single Output	Open-Frame
ECP	20-150 W	1-3 Outputs	Open-Frame
PoE100	100 W	PoE Output	Open-Frame
CLC	125-175 W	Single Output	Open-Frame
DCM60/100	60-100W	Single Output	48 V Input

Low Cost

- Value Brand
- Low Cost Product
- Designed for ITE applications
- Open-Frame and External Type
- 5-150 Watts

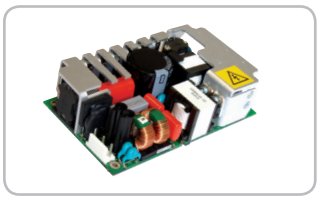
VCP	5-24 W	Single Output	PCB Mount
VCT	60 W	Single Output	Open-Frame
VEH / VEP	8-90 W	Single Output	External
VFT	80-150 W	Single Output	Open-Frame



High Efficiency

- No Fan Required
- Convection Cooled
- 250 Watts (300 Watts peak)
- 96% Efficient
- 5 V Standby

CCB	250 W	Single Output	Open-Frame
CCM	250 W	Single Output	U-Channel



Highest Power Density

- High Power Density
- 350 Watts 3" x 5" PSU
- Digital I²C Control
- Market Leading Size
- 5 V Standby
- Current Share

EMH250	250 W	Single Output	Open-Frame
EMH350	350 W	Single Output	Open-Frame
MFA350	350 W	Single Output	U-Channel
MFA420	420 W	Single Output	U-Channel

Conduction Cooled

- AC-DC Baseplate Cooled
- Active Power Factor Correction (PFC)
- -40 to +85 °C Operating Range
- Conduction Cooled via Baseplate
- 100-600 Watts

ECC100	100 W	Single Output	Conduction Cooled
BCC200	200 W	Single Output	Conduction Cooled
BCC400	400 W	Single Output	Conduction Cooled
CCH600	600 W	Single Output	Conduction Cooled
CCC600	600 W	1-4 Outputs	Conduction Cooled

Hot Swap

- AC-DC 1U Front End Power Supplies
- 1200-1500 Watts
- Compact 1U Form Factor
- Hotswap Modules
- Up to 6 kW in 1U Rack

GFR	1500 W	Single Output	1U Hotswap
GFR 56 V	1500 W	PoE Output	1U Hotswap
GFR Rack	6000 W	1-2 Output	1U 19" Rack
56 V Rack	6000 W	Single Output	1U 56 V PoE Rack

Visit **www.xppower.com** for full details of all our products

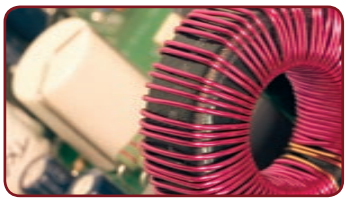
Global Communications

- **London Stock Exchange listed**
- **Design, engineering & sales operations in 14 countries**
- **Technology leading product development group**
- **Electronic Industry Citizen Coalition (EICC) member**
- **Global commitment to the environment**

Engineering

Situated across three continents, our engineers are focused on designing new power supplies for our target customers.

- Design locations 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 low cost design



Manufacturing

Our products are manufactured in our factory near Shanghai, China. This low cost, high volume, ISO9001 facility enables us to be competitive in the communications market.

- High volume low cost manufacturing capability
- 20 years experience in Asian manufacturing
- Flexibility from low volume local capabilities

Global Support

XP Power manages programs 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
- EMC & thermal verification resources available to customers

Quality

The nature of the communications market demands high quality reliable products. 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

Environmental "**Green**" Power Supplies

GREEN•POWER

We are leading the way with next generation power converters that use less energy enabling higher efficiency end applications and reducing cost of ownership.

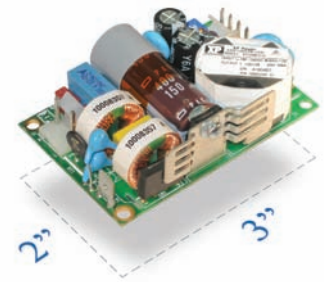
This higher efficiency enables us to design smaller products which in turn enables customers to build smaller systems, reduce or eliminate the need for noisy cooling fans and also reduce the cost of transportation. All products are manufactured in an ISO14001 facility.

Our products meet Energy Star Level V, CEC and EISA requirements for external type power supplies. Our products use less energy when operating and are designed to draw much less power when operating under no-load conditions.

Our next generation open-frame products also meet the requirements for low no load output power.

Examples

- New ECS60 in 2" x 3" package is 25% smaller than the nearest comparable competitors product.
- New CCB250 is up to 96% efficient and has typically 50% less power dissipation than other similar power supplies.



Power-Over-Ethernet

As Power-Over-Ethernet networking systems become more popular in both IT and Security applications XP Power has created several products that meet the PoE IEE802.3AF standard. These products have higher output isolation (1500 VAC) in order to provide bulk injection power into a PoE system.

A new GFR PoE Series is identical in form factor to other GFR models which enables customers to easily add PoE capability into a single system.

Rugged, Extreme Environments

Baseplate cooled products are designed for use in sealed enclosures over temperature extremes of -40 to 100 °C. The units are designed to be small and low profile to make them easy to integrate. A rugged build standard with optional conformal coating enables them to be used in outdoor applications such as wireless, broadcasting, SSPAs and mobile applications like tracked/wheeled vehicles and mobile shelters. Designed to be low noise they are also suitable for use in government and RF applications where EMI needs to be kept within stringent limits.

Our product line consists of both AC-DC and DC-DC converters from 25 Watts to 3 kW+.

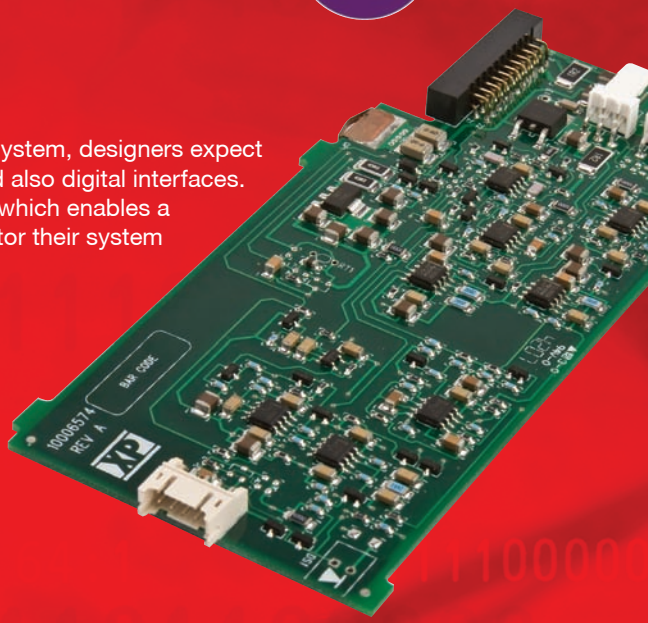
Engineered Solutions

Our Engineering Services group 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
- Fast time to market, low design risk
- High volume production capability in Asia

...designing

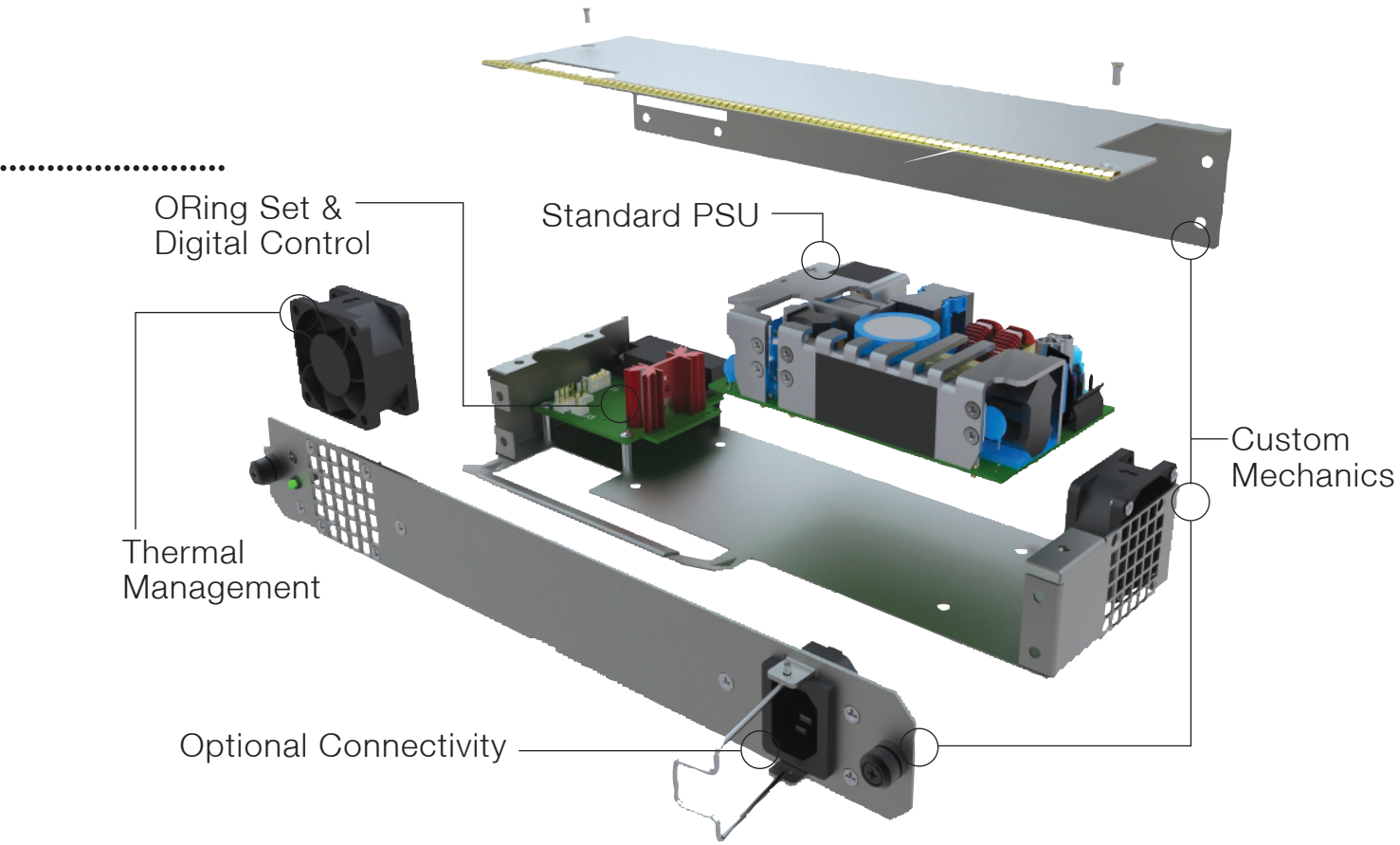
Digital Control Interfaces



As worldwide legislation focuses on the power supply and its impact on the system, designers expect to be able to interrogate and control the power system using both analog and also digital interfaces. XP Power provides an I²C Interface on its new GFR and EMH product series which enables a customer to access power supply functions via software, they can then monitor their system from anywhere in the world. Typical functions include:

- V/I Monitoring
- Inhibit
- Current Limit
- Serial Number
- Run Time
- PSU ID
- Temperature Monitoring
- Fault ID

Plus numerous customer specific algorithms and functions can be implemented by XP Power's Engineering Service Team.



power for a new generation

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