

Contracted Product Development

ACCELERATE PRODUCT DELIVERY WITH SYSTEM DESIGN PACKAGES

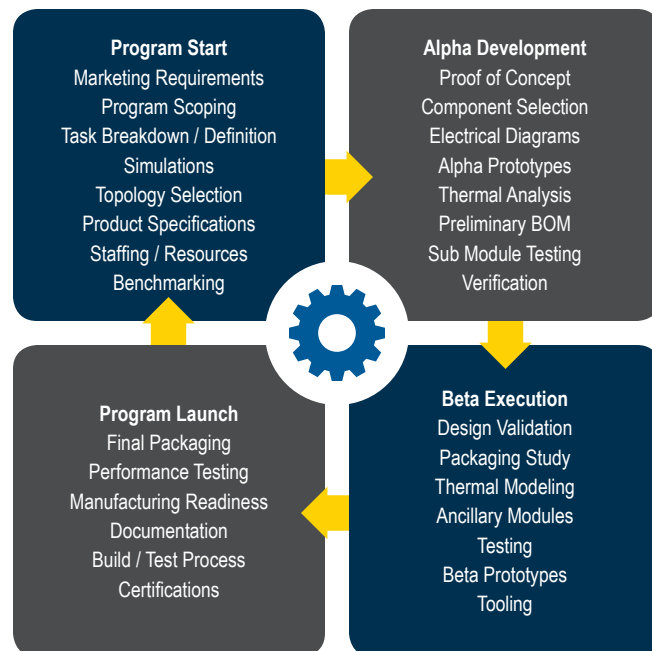
To speed time to market, reduce risk and lower your product development investment, Rhombus offers system design packages. Based on proven hardware and software designs, they can be tailored to your particular system requirements.

- Complete inverters / converters from 3 kW to 1 MV
- Innovative DSP / FPGA control cards
- Wide range voltage / high current DC to DC converters
- Battery management systems (BMS)
- Customized, bi-directional industrial motor drives
- Programmable AC to AC power supplies
- Level I, II or III battery chargers from 2 kW to 250 kW
- Energy storage systems
- EV drive systems
- Fuel cell controls
- Micro-turbine power converters / controls
- UPS inverters / controls
- Multi-port nano-grid systems
- Regenerative testing systems

Rhombus Energy Solutions is your product development partner specializing in power conversion and control. Count on Rhombus for full-service technical consulting and engineering through all phases of the product development cycle to create products that perfectly meet your program goals. Our capabilities are proven, with numerous successful engagements ranging from large and technically complex to small, high-volume and cost-driven products. Leveraging engineering teams in India and the US, we provide non-stop innovation, 24 hours a day. And with highly competitive manufacturing services delivered through our partner in Hong Kong, we serve as a one-stop integrated solutions provider.



PRODUCT DEVELOPMENT PROCESS



Contracted Product Development

Complete Engineering, Testing and Manufacturing Capabilities

Electrical Engineering

- Analog experience to assist with signal conditioning, RF design or power challenges
- FPGA and DSP designs to meet your advanced system requirements
- PCB experience to refine your design into the most compact, cost-effective solution available including high-voltage and high-current designs

Software Engineering

- Broad platform experience from Atmel to Freescale to Intel and from PowerPCs to embedded ARM multi-core processors
- Micro-controller and DSP programming for complex algorithm designs and advanced processing techniques
- Connectivity, data collection and analytics technologies to enable the Internet of Things

Mechanical Engineering

- FEA analysis to expose structural, heat exchange efficiency and potential water / air flow issues
- 3D, CAD/CAM design and documentation
- Plastic experience covering automotive, medical, industrial and consumer applications

Testing

- 10,000-square-foot high-power product development / testing laboratory facility
- UL1741 / IEEE 1547 certification testing
- High-power electrical infrastructure
- 4 independent 500 kVA test cells
- High-power electrical test and development equipment
- Dedicated load-bank room for off-grid converter development

Contract Manufacturing

- Full-service contract manufacturing, sourcing and R&D
- Headquartered in Hong Kong with six factories (four in China)
- ISO 9001 certified (Y2K) / ISO 14000 certified
- UL / CSA / TUV / CE agency approval
- 300,000 production space and 8,000 employees
- PCBA / Magnetics / Assembly
- CNC machine, bonding, SMT, plastic injection



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