

Infineon FS600R07A2E3 HybridPACK2 100KW 3-phase

Reverse Costing Analysis by System Plus Consulting – September 2013

The new automotive three-phase Six-Pack configuration in HybridPACK2 Up to 100KW power management

FS600R07A2E3 is a new-power module three-phase six-pack for the automotive market from Infineon. With a maximal power of 100KW, 650V and 600A the HybridPACK2 is optimized for the hybrid and electric vehicle applications.

The HybridPACK2 has a pin-fin base plate ready for direct liquid cooling. The power module integrates the ultra-thin IGBT3 and ultra-thin EMCON3 diodes from Infineon.

The new wire-bonding-less DBC contact technology improves the reliability of the module when compared to the previous HybridPACK1.

System Plus Consulting is publishing the reverse costing report on the FS600R07A2E3. Based on a complete teardown analysis (power module, mechanical parts, IGBTs and Diodes), the report provides an estimation of the production cost of HybridPACK2 module, IGBT3 transistor and EMCON3 diode.

The reverse costing report contains:

- Detailed photos and identification
- Bill of Material (module)
- Manufacturing process flow
Module, IGBT Diode
- In-depth economical analysis
- Manufacturing cost breakdown
- Selling price estimation



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ABOUT SYSTEM PLUS CONSULTING

System Plus Consulting is specialized in the **cost analysis** of electronics from **semiconductor devices** to **electronic systems**. Around this main line System Plus Consulting developed a complete range of services and costing tools to provide **in-depth production cost studies** and estimation of the **objective selling price** of the product.

COSTING SERVICES

- ✓ On demand **Reverse Costing studies** are performed on ICs, ASICs, MEMs, Power Devices, ECUs, electronic boards and full electronic systems
- ✓ The **catalog of available reports** includes cost analyzes on MEMS, Electronic components and Electronic systems

All these studies are performed using in-house developed costing tools and their technological databases.

COSTING TOOLS

« Purchaser » tools

- ✓ IC Price+ to estimate the cost of any integrated circuit
- ✓ Power Price+ to estimate the cost of any power component or module
- ✓ PCB Price+ for printed circuit boards
- ✓ SysCost+ a costing tool for electronic boards and systems

Cost Simulation Tools, process flow based

- ✓ MEMS CoSim+
- ✓ LED CoSim+
- ✓ Power CoSim+
- ✓ 3D Package CoSim+
- ✓ Sapphire CoSim+

Other costing models can be developed according to customer specification.

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