

Power-One Aurora MICRO-0.25-I PV Micro-Inverter

Reverse Costing Analysis by System Plus Consulting

*The first micro-inverter released by one the main PV Inverter providers
250W with MPPT to optimize efficiency in difficult solar conditions*

System Plus Consulting is publishing the reverse costing report of the Aurora solar inverter MICRO-0.25-I supplied by Power-One, the second largest PV inverter manufacturer.

MICRO-0.25-I is a 250W micro-inverter offering Maximum Power Point Tracking (MPPT) for each single module with efficiency ratings of up to 96.5%. The system uses film capacitors instead of electrolytic capacitors. This change allows a longer product lifetime and a standard warranty of 10 years. Four SiC diodes improve the electrical performances of the micro-inverter. The system is also equipped with a wireless communication interface.

Based on a complete teardown analysis, the report provides an estimation of the production cost as well as the selling price of the product.

This reverse costing report contains:

- Detailed photos
- Bill-of-Material
- Manufacturing process flow
- Manufacturing cost breakdown
- Manufacturing price estimation



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Ref.: SP13117

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*All reports are delivered electronically in pdf format

*For French customer, add 20 % for VAT

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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
- ✓ SYS.Cost a costing tool for electronic boards and systems

Cost Simulation Tools, process flow based

- ✓ MEMS CoSim+
- ✓ LED CoSim+
- ✓ Power CoSim+
- ✓ TSV CoSim+ (thru silicon vias)
- ✓ Sapphire CoSim+
- ✓ PV CoSim+ (photovoltaic)
- ✓ Other costing models can be developed according to customer specification

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