

ARTICLE

# 2.5 billion dollar emerging market continues to invest in ABB



01. PCS100 UPS-I

## The industry and the project

The world's largest manufacturer producing nearly 50% of OLED displays is now protecting its sensitive operations from the critical effects of power disturbances with ABB's PCS100 UPS-I (industrial UPS). An all essential requirement to a major contender in what was predicted to be a \$2.5 billion market in 2010 alone. March 2010 saw five ABB industrial UPS applications installed and commissioned on-site. In August a further three x 1500kVA and a 300kVA unit were supplied. This growing solution is now giving this industry giant key factors and advantage in energy efficiency, a compact footprint, efficient power protection and exceptional reliability.

The PCS100 UPS-I is a short-time rated energy storage system, coupled to an inverter to allow the downstream load to remain operational through short outages and very deep sags of up to 30 seconds. It operates with an on-line type performance due to the revolutionary fast utility disconnect. The modular inverter construction and fail safe electromechanical bypass provides outstanding reliability and system availability. Processed loads are able to ride through common power problems, increasing yield, reducing product wastage and improving productivity. Not your typical UPS, the PCS100 UPS-I is designed to be rugged, and extremely efficient.

The next generation in screen technology, organic light emitting diodes (OLED), has been receiving worldwide attention as the new type of TV display technology. The nature of this technology lends itself to extremely thin, flexible and lightweight designs, with the ability for use in a variety of different applications.

A product intended for the more demanding requirements of industrial applications such as the manufacture of organic light emitting diode (OLED) technology. A breakthrough in the screen industry which could mean video wallpaper just a millimeter thick will soon transform living room walls into a flat screen, and electronic film as thin as a sheet of paper serving as your screen for the internet, the news, images or games.

## Solution benefits and features

- Protection against short outages and very deep sags
- Protects against utility reclosure events
- Provides back-up during generator start-up following a utility supply failure
- Allows process loads to ride through common power problems, increasing yield, reducing product wastage and improving productivity
- Very high efficiency (typically 99%)
- Very high fault capacity compared with standard UPS solutions
- Extensive range of voltages available
- Small footprint design
- Maintenance bypass option available for larger models
- Custom storage solutions available