The Conceptpower DPA boasts the lowest cost of ownership of any UPS system by offering energy efficiency, scalable flexibility and ergonomic design to enable easy serviceability.

Along with the increasing demand for air travel services, the airline of Indonesia continues to expand its network, reaching fast growing economic cities and new tourist destinations in the Western and Eastern region of Indonesia. Each day, many thousands of passengers are handled by their online ticketing, check-in, baggage handling and other operations. Clearly, an operation as time-critical as this cannot afford to go off line, for even the shortest time. “The airport’s operation simply must not go down,” explains Mr. Tukiman, ABB representative in Indonesia. “However, their existing 300 kVA UPS broke down suddenly and the supplier had no spare parts.”

ABB came in and replaced the unit with an ABB Conceptpower DPA 250 featuring four 40 kVA modules. This 160 kVA N+1 UPS amply covers the 100 kVA load and leaves capacity spare. Should power requirements increase above 160 kVA, it is a simple matter to add more plug-and-play modules to increase capacity. Reliability and availability are ensured by the Conceptpower DPA proven Decentralized Parallel Architecture. Each module contains all the hardware and software required for full system operation. They share no common components: Each UPS module has its own independent static bypass, rectifier, inverter, logic control, control panel, battery charger and batteries.

With all the critical components duplicated and distributed between individual units, potential single points of failure are eliminated. The Conceptpower DPA UPSs are highly efficient and the airline will now make substantial energy savings over the lifetime of the unit. The modular design makes repair and maintenance simple too – so it can be carried out by non-expert staff and without powering the unit down.

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