

Aspect Labs AE400 Technical Specification

The AE400 is a powerful and compact power system that grows and is shaped by the demanding needs of the installation. The unique slot system provides scalability and adaptability in one platform allowing it to become many things from three key components – AE400-P4, AE400-I4 and the AE400-Core.

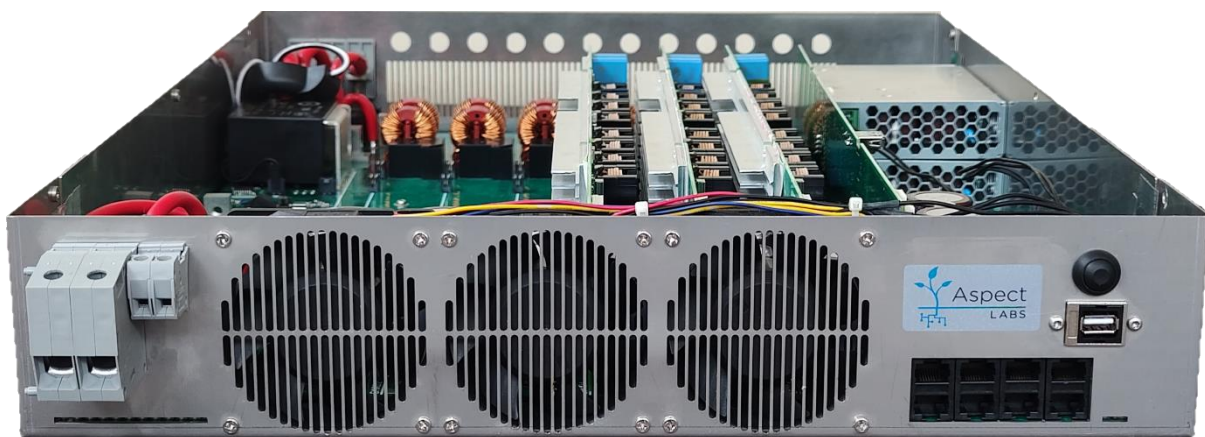
- The AE400-P4 is a 4kW full inverter module providing bi directional AC/DC feed to and from the connected 400 VDC battery.
- The AE400-I4 is a 4kW isolated MPPT module linking up to 600 VDC solar modules into the battery system complete with PV fault monitoring.
- The AE400-Core is the power system backbone supporting the modules and the Pulselink system allowing each module to operate in unison.

A combination of three I4 and three P4 units within a Core becomes a 12kW inverter module and three 4kW 600V DC Coupled Isolated MPPTs – “AE400-12I-12P”

One power system – many opportunities.

Preliminary Short Form Technical Specifications AE400-12I-12P Rev 02:

Battery Nominal Voltage	435 VDC
Operating Voltage Range	370 - 460 VDC (128 cells @ 2.9 - 3.6 VDC)
Maximum DC Current	35 A
AC Nominal Voltage	230 VAC: 180 – 275 VAC at Battery Nominal
Frequency	50 Hz: 45 – 55 Hz
AC Rated Power	12kW
Maximum AC In to AC Out Current	200 A AC Link
Solar MPPT Power	12kW (3 x 4kW modules)
Max PV In	600 VDC
Max PV Current	10A
Dimensions	2U Rack case – 491 x 582 x 87 mm (W x L x H)
Ambient Temperature	-10°C to 45°C – Derated above 45°C
Safety	In-built RCD, Earth Fault Monitoring



AE400-12I front view (no lid)- “B-level” pictured

Specifications subject to change – © Aspect Labs Pty Ltd