

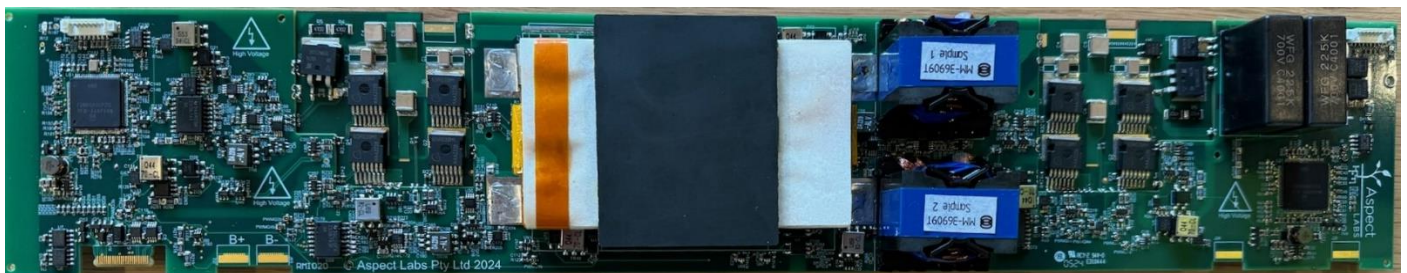
AE400-I4 Technical Specification

The AE400-I4 is a dual synchronous rectifier isolated power module operating as a MPPT converter to seamlessly provide PV solar power through to the connected battery bank. The hi-frequency design enables an efficient, high-density module requiring minimum cooling and external components.

AE400-I4s operate as independent MPPTs or can interwork precisely together; increasing the power by as many cards as are linked.

Preliminary Technical Specifications Rev 06:

Battery Nominal Voltage	410 VDC
Battery Operating Range	350 - 460 VDC (128 cells @ 2.7 - 3.6 VDC)
Maximum DC Current	10 A
PV Input Operating Range	0 – 500 VDC (Max OC 600VDC)
PV Maximum Current	10 A
Peak Efficiency	0.981
Operating Modes	MPPT, Constant Current, Constant Voltage
MPPT Rated Power	4000 W - (420 - 500V) PV Input
MPPT Dimensions	440 mm x 76 mm x 40 mm
Ambient Temperature	-10°C to 45°C – Derated above 45°C
Cooling	Forced Air
Humidity	Max 90% non-condensing
MPPT Topology	Isolated, Direct Switch
Format	Cold plug In PCB edge
MPPT Interfaces	Edge connector: PulseLink, CAN, DC Terminals: A
Pulselink	Yes - multi card node only
Max Pulselink Cards	100



“B-level pictured”