

AE400-P4 Technical Specification

The AE400-P4 is a LV, non-isolated, four quadrant power module operating as an inverter/rectifier device to seamlessly provide AC power to equipment from battery supply or utilise the AC supply to recharge connected battery. The hi-frequency GaN FET design enables an efficient, high-density module requiring minimum cooling and external components.

AE400-P4s interwork precisely together; increasing the power by as many cards as are linked.

Preliminary Technical Specifications Rev 05:

Battery Nominal Voltage	435 VDC
Operating Range	370 - 460 VDC (128 cells @ 2.9 - 3.6 VDC)
Maximum DC Current	10 A
Peak Efficiency	97 %
AC Nominal Voltage	230 VAC
Operating Range	180 – 275 VAC at Battery Nominal Voltage
Nominal Frequency	50 Hz
Operating Range	45 – 55 Hz
Rated Power	4000 W
Rated VA	4000 VA
Maximum RMS Current	17.4 A
Sustained Short Circuit Current	50 A
Power Factor	0.1 leading ... 1 ... 0.1 lagging
Dimensions	414 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
Topology	Non-isolated, Direct Switch
Format	Cold plug In PCB edge
Interfaces	Edge connector: PulseLink, CAN; AC; DC
Pulselink	Yes - multi card node only
Max Pulselink Cards	100



“B-level pictured”

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