

LOW997 INDUSTRIAL

Technical datasheet - placeholder document

HP-100 Hybrid Power Conversion System

Model HP-100 - Energy Storage & Power Conversion

Bidirectional 100 kW power conversion system with dual MPPT inputs, grid-forming capability and four-quadrant operation for commercial solar and battery-backed sites.

SPECIFICATIONS

Rated AC power	100 kW, four-quadrant bidirectional
AC output / input	400 V AC three-phase + N + PE, 50/60 Hz
AC voltage range	320 - 460 V AC
DC battery input	200 - 1 000 V DC
DC PV input	Dual MPPT, 200 - 1 000 V DC each
Maximum efficiency	98.6 % at rated load
Reactive power	-1.0 to +1.0 power factor, fully adjustable
Grid support functions	Volt-watt, volt-var, frequency-watt, ride-through
Islanding / backup mode	Grid-forming, 10 ms transfer to backup
Standards compliance	UL 1741 SB, IEC 62477-1, IEC 62109-1/-2
Cooling	Forced air, temperature-controlled fan bank
Degree of protection	IP66 (outdoor rated)
Operating temperature	-25 degC to +60 degC, derated above +45 degC
Mass	118 kg

CERTIFICATIONS

UL 1741 SB - Grid support utility interactive inverters
IEC 62477-1 - Safety of power electronic converter systems
IEC 62109-1 / -2 - Safety of power converters for PV systems
EN 50549-1 - Requirements for generating plants in parallel with LV networks
CE - EMC Directive 2014/30/EU
RoHS 3 - EU 2015/863

DOCUMENT CONTROL

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