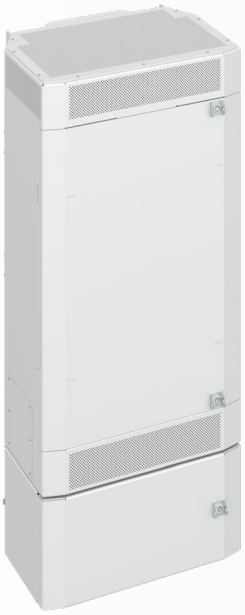
AiTHER SYSTEMS

iQP18



18 kW Hybrid Inverter

The validated hybrid inverter pairing for the AiTHER stackable battery platform. Engineered for the most demanding off-grid and backup applications, with industry-leading continuous power and surge capability.

Built for big loads

18 kW continuous with 36 kW surge (10s) to start HVAC units and motors without hesitation.

Fleet-ready

Stackable up to 12 units for larger sites; pairs directly with the AiTHER EMS for fleet-wide monitoring and control.

Massive PV support

Supports over 40 kW of PV with AC coupling—more than any comparable residential / commercial inverter.

Long service life

10-year standard warranty with a rugged NEMA 3R / IP65 enclosure for outdoor deployment.

System Specifications

Continuous AC Output	18,000 W
Surge Power (10s)	36,000 W
Max. PV Power (Supported / Usable)	32,400 W / 28,800 W
Max. AC Coupled Input	19,200 W
MPPT Voltage Range / Inputs	150–425 V / 3|2
Grid Voltage / Frequency	120/240; 208 / 55 – 65 Hz
Max. Output / Grid Passthrough Current	75 A / 200 A
Max Efficiency	97.6%
Stackable	Yes; up to 12 units
Nominal Battery Voltage (Range)	48 VDC (40 – 60 V)

Continuous Battery Charge / Discharge Current	350 A
Battery Capacity Range	50 – 9,900 Ah
BMS Communication	CANBus & RS485 Modbus
Dimensions (H x W x D)	863 x 464 x 282 mm
Weight	62.4 kg (137 lbs)
Enclosure / Ambient Temperature	IP65/NEMA 3R / -40°C to 60°C
Operating Altitude	3,000 m (9,843 ft)
Product Warranty (Conditional / Limited)	10yr standard product / 15yr if part of EaaS
Certifications	UL1741 SB/CRD-PCS, IEEE1547/2030.5, UL1699B, UL1998, CSA C22.2 No. 107

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