

All-in-one Liquid Cooled



105+ kW
233+ kWh

10 years
warranty as
a standard

300+
operational
systems in
the field

HIGHLIGHTS



BESS + EMS

Our integrated energy management solutions give you full control of your energy, while iwell takes full responsibility.



EU cyber security

Data and communication are managed by iwell in the EU and fully encrypted. We are compliant with ISO 9001, ISO 27001, NIS2 and IEC 62619.



Fully customizable

From a single unit to unlimited scale. Scalable at any moment in time. Making your business future-proof.

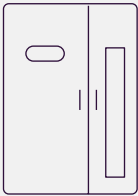


24/7 predictive asset management

Maximum reliability through continuous and predictive monitoring. Peace of mind due to 24/7 response to failures.

Specifications

All-in-one cabinet



Item	Parameters
AC Voltage	400 V
Power	105 kVA
Power Factor	1.0 > -1.0
Off-grid Capabilities	Upon request
Frequency	50 / 60 Hz
THDi	<3% IEEE519
Battery Energy	233 kWh
Battery Configuration	1p5s
Max Chiller Power	4.8 kW
Typical Aux Power	3.5 kW
RTE	89% (AC SPOC)
IP Rating	IP 55

Pack



Item	Parameters
Rated Energy	46.6 kWh
Rated Power	23.3 kW
Rated Capacity	280 Ah
Nominal Voltage	166.4 V DC
Voltage Range	143 - 187.2 V
IP Rating	IP 65
Cooling	Liquid

Cell



Item	Parameters
Chemistry	LFP
Rated Energy	896 Wh
Rated Capacity	280 Ah
Rated Voltage	3.2 V DC
Voltage Range	2.5 - 3.65 V DC
Weight	5.51 kg

ALL-IN-ONE LIQUID COOLED



Cabinet	
Dimensions	1.350 × 1.300 × 2.050 mm
Weight	2.6 Tons

PRODUCT HIGHLIGHTS



Cycle Stability
8000 cycles, using
tier 1 CATL cells.



Liquid cooled packs
State of the art liquid
cooled battery packs.

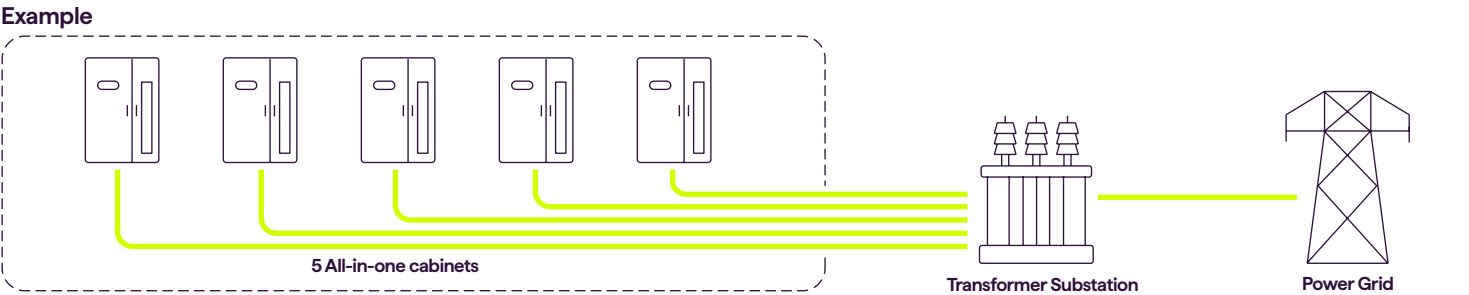


Plug & play
Integrated battery and PCS
in a single cabinet. Easy to install
by connecting one cable directly
to AC power.



Inherently robust design
Highly modular design ensures
seamless operation; if one module
fails, the remaining modules
continue functioning.

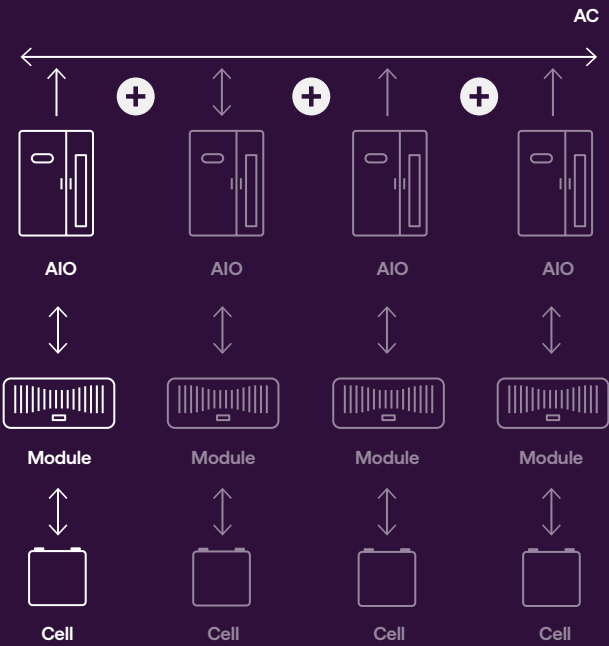
Configuration



Configuration options

Number of AIOs	1	2	3	4	5	6	7	8	9	n
Power (kW)	105	210	315	420	525	630	735	840	945	105*n
Energy (kWh)	233	466	699	932	1.165	1.398	1.631	1.864	2.097	233*n

SYSTEM OVERVIEW



Item	Parameters
Type of Battery	LFP (Tier 1)
Rated Capacity	233 kWh per cabinet
Rated PCS Power	105 kVA
System Configuration	5s1p (5 series 1 parallel)
Nominal DC Voltage	832 V
AC Voltage	400 V
Depth of Discharge	90%
System Efficiency	89.4%
Ambient Temperature	Between -25 °C and 55 °C
Relative Humidity	<95%
Altitude	<2.000 m
Protection Level Cabinet	IP55
Protection Level Pack	IP65
Cooling Method	Liquid cooled
Fire Suppression Agent	Aerosol (pack & system level)
Communication Method	API, TCP/IP
Conformity	CE, IEC 62619, IEC 61000, IEC62933-5-2, IEC62477, IEC 63056