

Containerized Liquid Cooled



APS 1.2-5 MW
MCS 5-7.5 MW
5+ MWh

5 years
warranty as
a standard

350+
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.

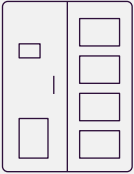


24/7 predictive asset management

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

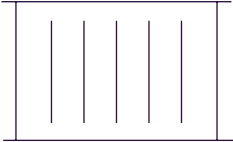
Specifications

PCS



Item	Parameters
Voltage Range	330 - 690 Vac (project specific)
DC Max Current	1884 A (0.50P) 943 A (0.25P)
AC Voltage	Max +/- 10% of Vac, nom
AC Current Max	1050 A (per inverter module)
Nominal Power	1200 - 7500 kVA range
AC Frequency	50 / 60 Hz
AC Current Distortion (THD)	<3%
AC PF	0 - 1 (leading or lagging)

Container



Item	Parameters
Rated Energy	5015 MWh (1 full container)
Rated Capacity	1331 V DC
Voltage Range	1040 - 1500 V DC
Dimensions	6085 × 2438 × 2896 mm
Weight	44.5 t

Module



Item	Parameters
Rated Energy	104.5 kWh
Rated Power	52.2 kW
Rated Capacity	314 Ah
Rated Voltage	332.8 V DC
Voltage Range	260 - 379.6 V
IP Class Module	IP67
Cooling Method	Liquid

Cell



Item	Parameters
Chemistry	LFP
Rated Energy	1004.8 Wh
Rated Capacity	314 Ah
Rated Voltage	3.2 V DC
Voltage Range	2.5 - 3.65 V DC
Weight	5.78 kg

CONTAINERIZED LIQUID COOLED



Battery Container

Dimensions	6085 × 2438 × 2896 mm
Weight	44.5 t <i>depending on capacity</i>

PCS Cabinet

Dimensions	1950 × 1170 × 2296 mm
Weight	2.8 t <i>depending on inverter size</i>

PRODUCT HIGHLIGHTS



European PCS

Power conversion system designed and manufactured in Germany.



Competitive Warranties

Up to 10,000 cycles and market-leading throughput guarantees.



Liquid cooled battery modules

Containerised solution with advanced liquid-cooled battery modules and flexible configuration.

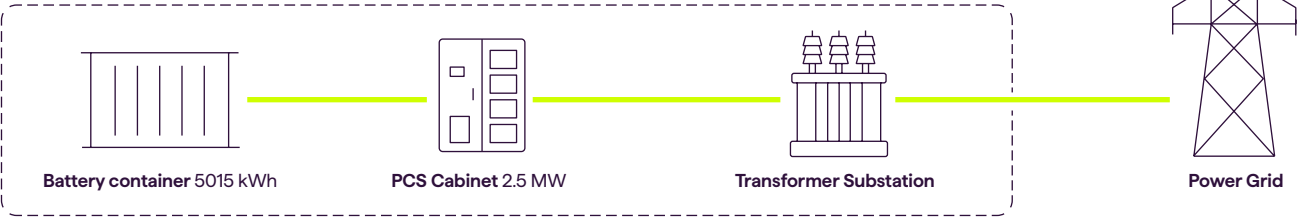


High energy density configuration

Container capacities ranging from 5 to 100 MWh and inverters from 1.2 MW. Designed for back-to-back and side-to-side installation.

Configuration

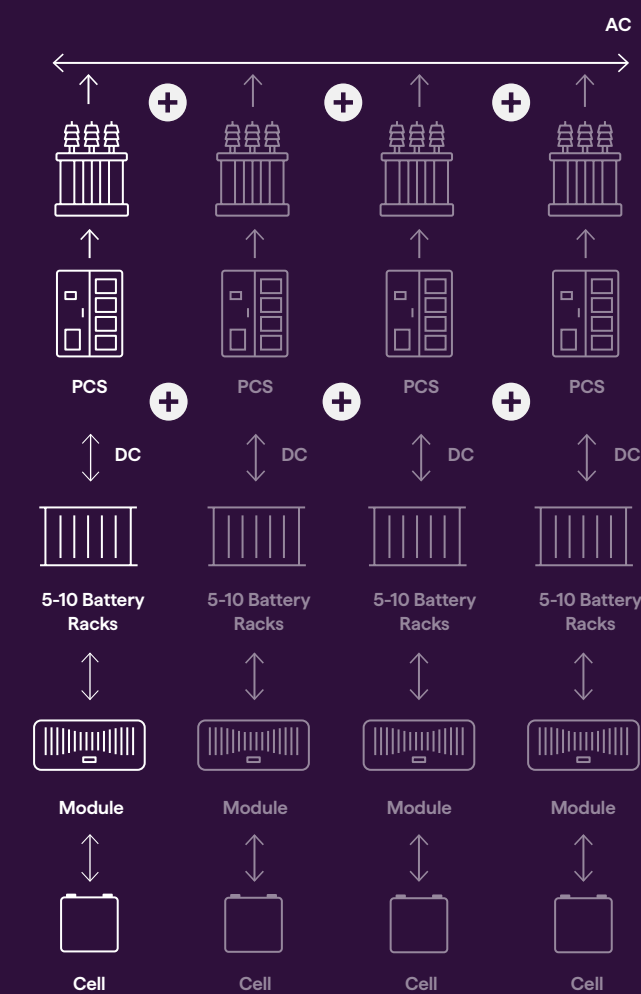
Example



Configuration options

PCS#	1	2	2	2
PCS Module#	2	4	4	4
PCS Power (kW)	2500	5000	10000	15000
Battery Container#	1	2	4	6
Energy (kWh)	5000	10000	20000	30000
C-rate	0.5	0.5	0.5	0.5

SYSTEM OVERVIEW



Item	Parameters
Type of Battery	LFP (Tier 1)
Rated Capacity per Container	5015 kWh
Rated PCS power	1,2 - 7.5 MW
System Configuration	1 x PCS up to 4 Battery Containers
DC Voltage Range	1040 - 1500 V DC
Depth of Discharge	100%
System efficiency (AC)	89.4%
Ambient Temperature	Between -20 °C and 55 °C
Relative Humidity	< 95%
Altitude	<2000 m
Protection Level Container	IP55
Protection Level Pack	IP67
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