

Containerized Liquid Cooled



APS 2-5 MW
MCS 5-7.5 MW
4+ MWh

5 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.

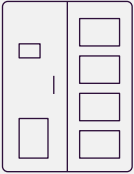


24/7 predictive asset management

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

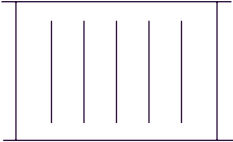
Specifications

PCS



Item	Parameters
Voltage Range	330 - 690 Vac (project specific)
DC Max Current	1.500 A (1.000 A nominal)
AC Voltage	Max +/- 10% of Vac, nom
AC Current Max	1.050 A (per inverter module)
Nominal Power	1.000 - 5.000 kVA range
AC Frequency	50 / 60 Hz
AC Current Distortion (THD)	<3%
AC PF	0.1-1 (leading or lagging)

Container



Item	Parameters
Rated Energy	4.073 MWh (1 full container)
Rated Capacity	1.331 V DC
Voltage Range	1.164 - 1.497 V DC
Dimensions	6.085 × 2.438 × 2.896 mm
Weight	37 t

Module



Item	Parameters
Rated Energy	50.8 kWh
Rated Power	25.5 kW
Rated Capacity	306 Ah
Rated Voltage	166.4 V DC
Voltage Range	143 - 187.2 V
IP Class Module	IP65
Cooling Method	Liquid

Cell



Item	Parameters
Chemistry	LFP
Rated Energy	979.2 Wh
Rated Capacity	306 Ah
Rated Voltage	3.2 V DC
Voltage Range	2.5 - 3.65 V DC
Weight	5.51 kg

CONTAINERIZED LIQUID COOLED



Battery Container

Dimensions	6.085 × 2.438 × 2.896 mm
Weight	37 t <i>depending on capacity</i>

PCS Cabinet

Dimensions	1.950 × 1.170 × 2.296 mm
Weight	2.8 t <i>depending on inverter size</i>

PRODUCT HIGHLIGHTS



European PCS

Power conversion system designed and manufactured in Germany.



Multiple configuration possibilities

Flexible power and capacity configurations to fit your business needs.

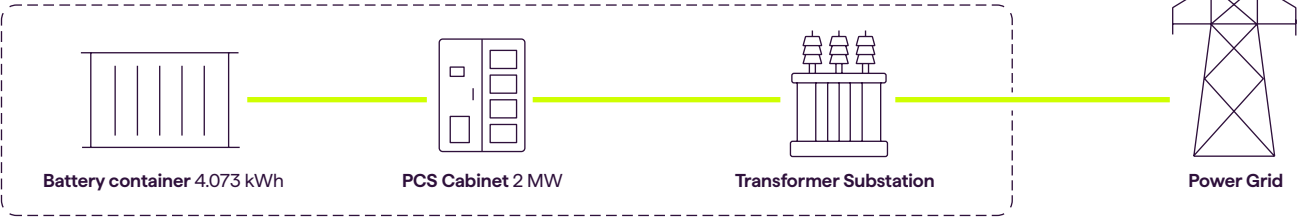


Liquid cooled packs

Containerized solution with state of the art liquid cooled battery packs.

Configuration

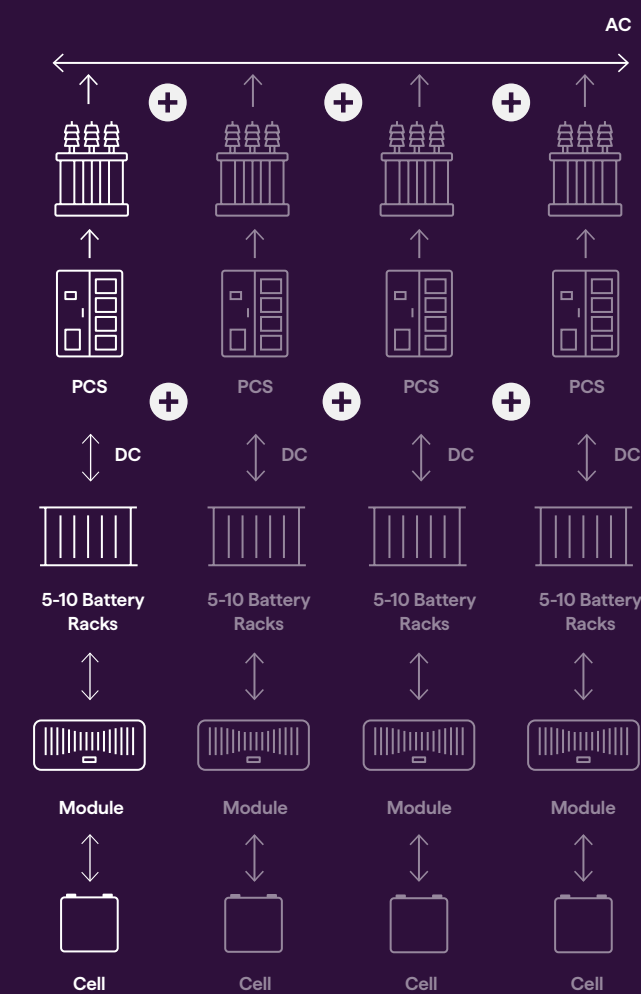
Example



Configuration options

PCS#	1	2	2	2
PCS Module#	2	4	4	4
PCS Power (kW)	2.000	4.000	5.000	7.500
Battery Container#	1	2	4	4
Energy (kWh)	4.000	8.000	16.000	16.000
C-rate	0.5	0.5	0.3	0.5

SYSTEM OVERVIEW



Item	Parameters
Type of Battery	LFP (Tier 1)
Rated Capacity per Container	2.036 - 4.073 MWh
Rated PCS power	2 - 7.5 MW
System Configuration	1 x PCS up to 4 Battery Containers
DC Voltage Range	1164 V - 1479 V DC
Depth of Discharge	95%
System efficiency (AC)	89.4%
Ambient Temperature	Between -25 °C and 55 °C
Relative Humidity	< 95%
Altitude	<2000 m
Protection Level Container	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