

Shinhoo

Energy storage industry
water pump solution
Application Manual

Power the System with
a Strong Heart



安徽新沪屏蔽泵有限责任公司
ANHUI SHINHOO CANNED MOTOR PUMP CO.,LTD.

公司地址(Add):安徽省合肥市高新区柏堰科技园铭传路 780 号
Company name: Anhui Shinhoo Canned Motor Pump Co., Ltd.
Company address: No.780, Ming Chuan Road, Hich-Tech Zone ,Hefei, Anhui, P.R .China
Web:www.shinhoodump.cn

国内贸易 P.R.China
电话(Tel): +86-551-62379800
传真(Fax): +86-551-62379800

国际贸易 International
电话(Tel): +86-551-62379803
传真(Fax): +86-551-62379801

企业在线 Company Online
阿里巴巴 : <http://hfxh88.1688.com>
阿里巴巴 : <http://xinhu.en.alibaba.com>

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Wholeheartedly Dedicated to Pump Excellence

Company profile

ANHUI SHINHOO CANNED MOTOR PUMP CO., LTD.

Is a wholly-owned subsidiary of Zhejiang Dayuan Pump Industry Co., Ltd. (Shanghai Stock Exchange: 603757). Upholding the Group's strategy vision of "Wholeheartedly dedicated to pump excellence, we build a century-lasting enterprise," the company specializes in the R&D, manufacturing, and sales of commercial and residential canned motor pumps. Its products are widely applied across multiple fields including HVAC, building water supply, hot water systems, and equipment room cooling, providing leak-free fluid transfer system solutions to diverse industrial clients. Anhui Shinhoo serves numerous Fortune Global 500 enterprises such as Gree, Midea, Haier, Bosch, Vaillant, and Samsung.

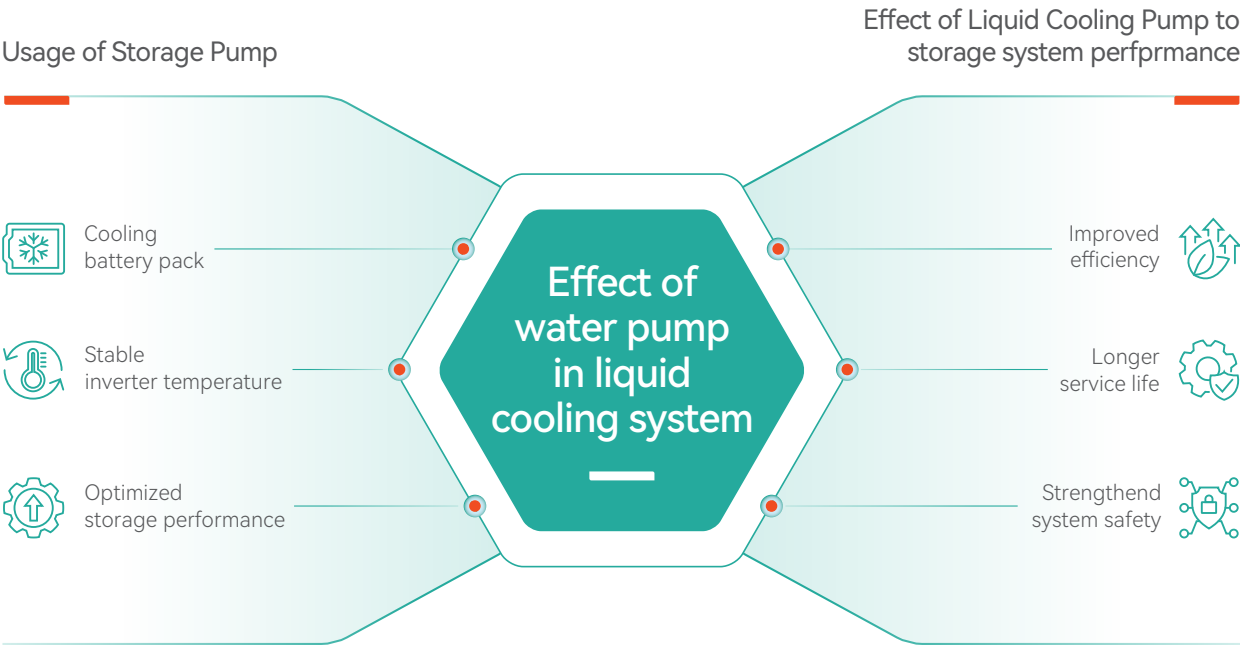
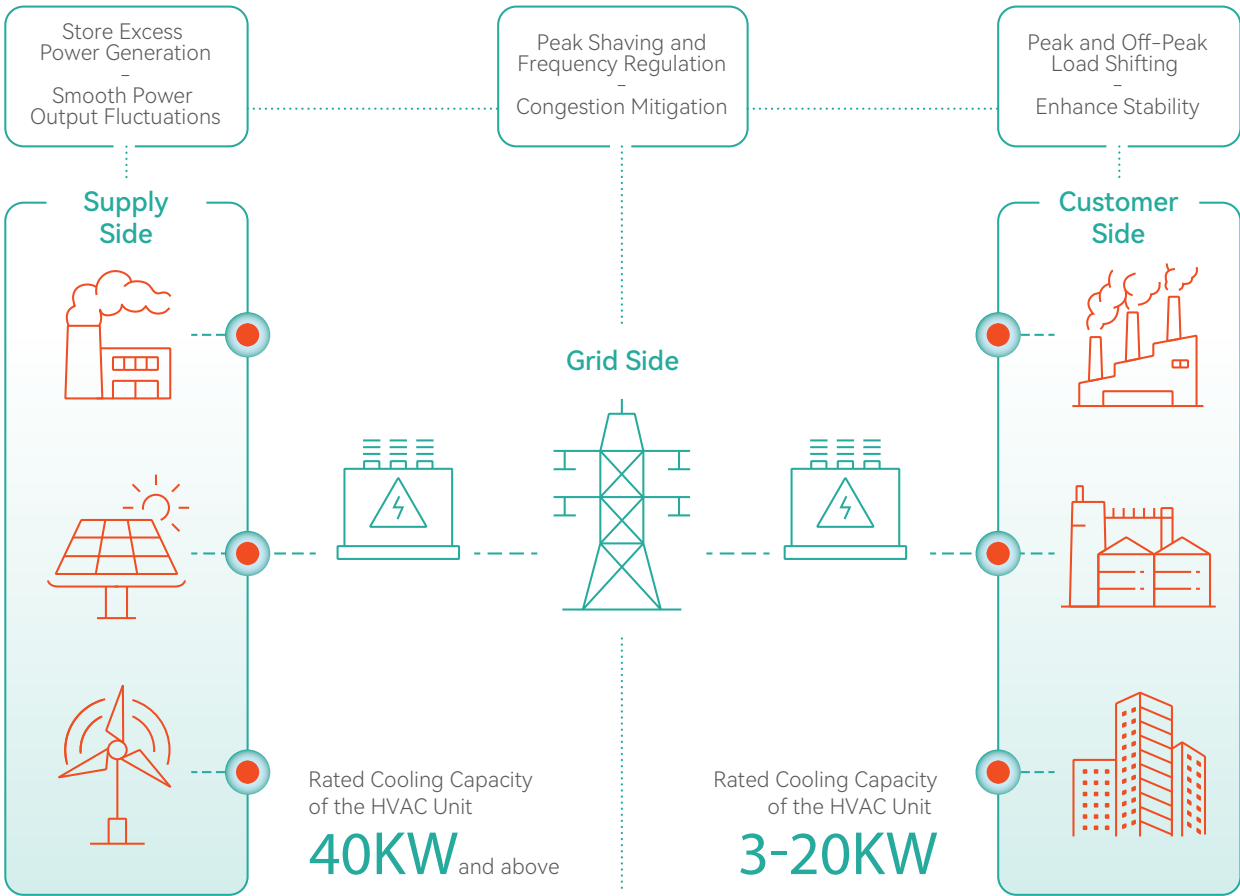
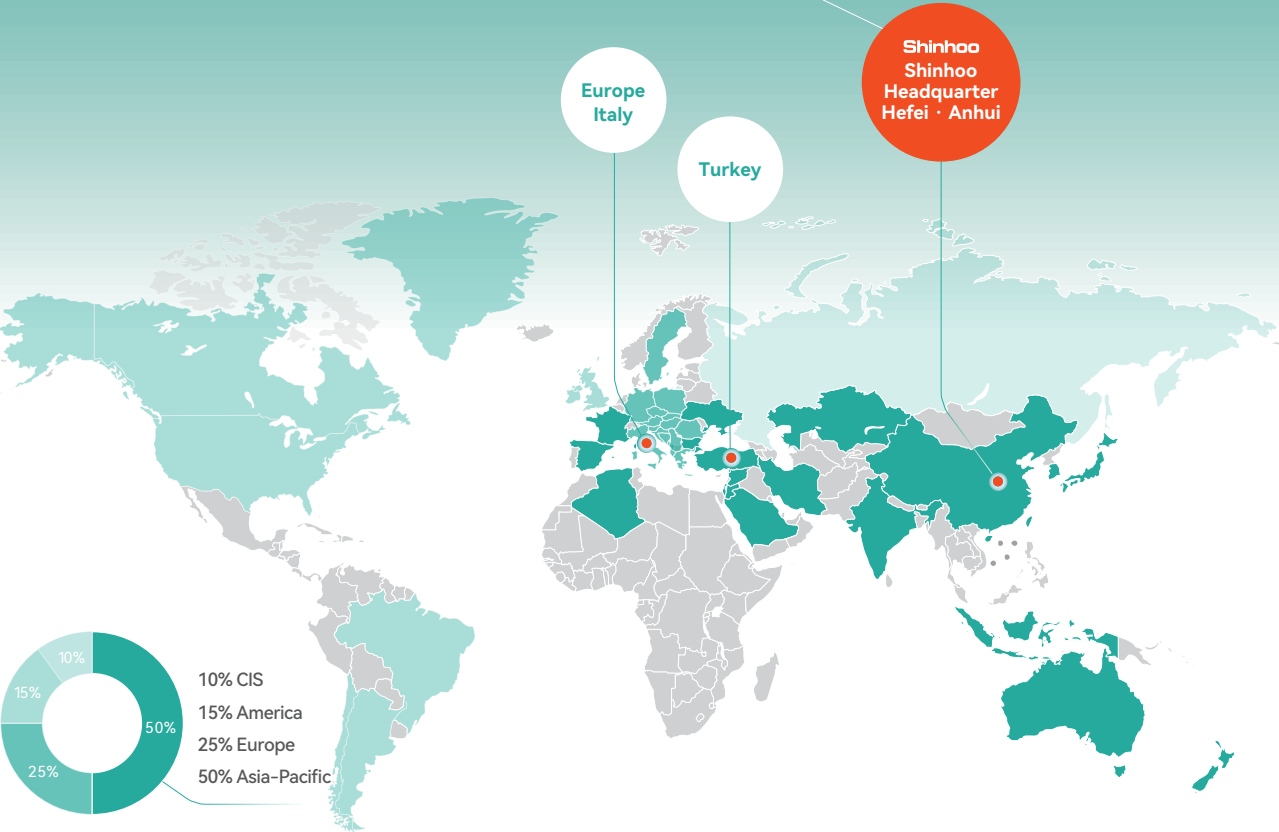


Listed Company
Wholly-owned
Subsidiary

Found in
1956

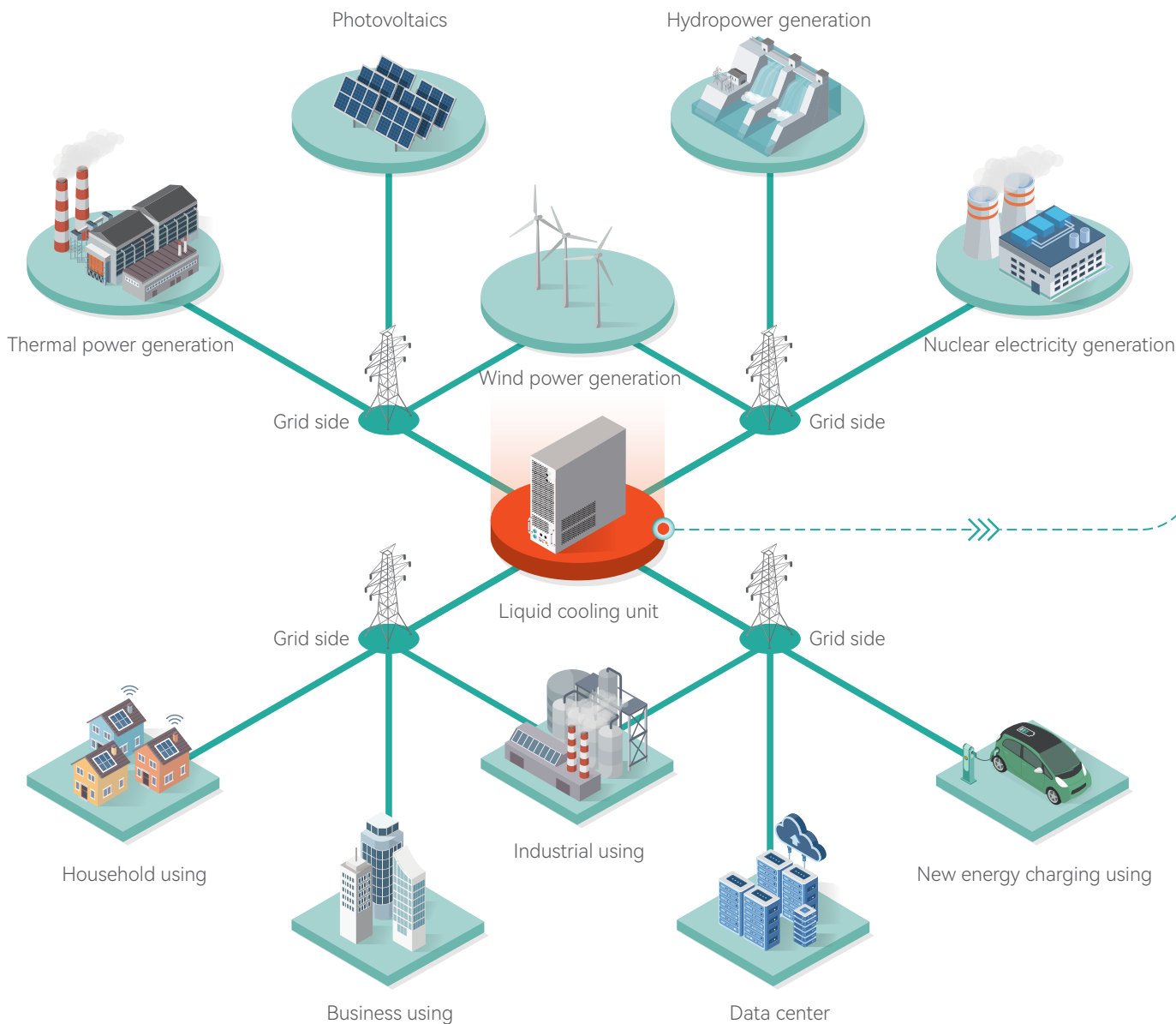
Export to
over 100
countries and areas

Yearly output is
more than 5
million sets

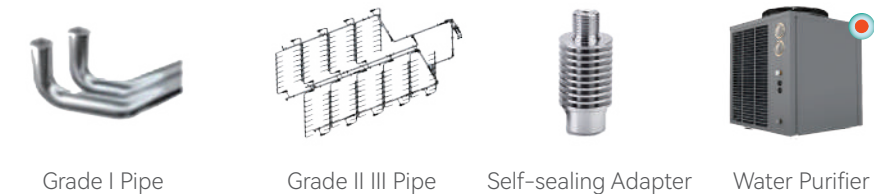


Comprehensive solution for thermal management system

01



02



03

Supply side



Demand side



Product recommendation

Recommended Pumps of Supply Side



PUMP MODEL	Rated Flow (m³/h)	Rated Head (m)	Input Power (kW)	Voltage (v)	Water Inlet /Outlet Type	Water Inlet /Outlet OD
EPA25-20ZD	2.4	21	0.38	24	Quick Coupling	Φ25
EPA25-20ZA (X)	3	17	0.35	220	Chuck	Φ25
EPA25-23ZA (X)	3	21	0.45	220	Chuck	Φ25
EPS25-30NC	5	25	1	380	Chuck	Φ50.5
EPS25-40NC	6	30	1.3	380	Chuck	Φ50.5
EPA25-37NC	6	30	1	220	Chuck	Φ50.5
MHI-202Q	2	18	0.43	220 (380)	Chuck	Φ50.5
MHI-203Q	2	28	0.65	220 (380)	Chuck	Φ50.5
MHI-403Q	4	28	0.85	220 (380)	Chuck	Φ50.5
MHI-404Q	4	35	1.05	220 (380)	Chuck	Φ50.5
MHI-405Q	4	46	1.5	220 (380)	Chuck	Φ50.5

Note: some water inlet/outlet of products provide optional quick coupling and thread.

Recommended Pumps of Demand Side



PUMP MODEL	Rated Flow (m³/h)	Rated Head (m)	Input Power (kW)	Voltage (v)	Water Inlet /Outlet Type	Water Inlet /Outlet OD
EPA50-30ZA (X)	20	25	3	380	Chuck	Φ77.5
EPA50-35ZAX	20	30	3.3	380	Chuck	Φ77.5
EPA50-40ZA (X)	30	30	5.5	380	Chuck	Φ106/Φ77.5
EPA50-45ZAX	42	30	6.8	380	Chuck	Φ106/Φ77.5
MHI803Q	8	28	1.5	220 (380)	Chuck	Φ64
MHI804Q	8	38	1.9	220 (380)	Chuck	Φ64
MHI805Q	8	48	2.2	220 (380)	Chuck	Φ64
MHI1603Q	16	25	2.5	220 (380)	Chuck	Φ64
MHI1604Q	16	32	3.1	220 (380)	Chuck	Φ64
AWZ65-40-160/4.0	25	31	4	380	Chuck	Φ91/Φ64
AWZ65-40-200/5.5	30	40	5.5	380	Chuck	Φ91/Φ64

Product advantages

Advantages of Canned Motor Pump Products

Long Service Life

No mechanical seal, no leakage and lifelong maintenance-free

High Efficiency Permanent Magnet Synchronous Motor

Wet rotor technology Stable operation

Anti Rusting and Corrosion

Stainless steel overcurrent component

Highly Reliable

Available at altitude of 4000 meters, IP56/67, endure not less than 720h salt spray test

Advanced Techonology

Frequency conversion technology,high efficiency and energy saving

Combined and Interconnected

CAN/485/PWM communications are all available

Multi-tier Protection

9 protections of motor pump control system

Industrial Design

Stable, no leakage and maintenance-free

Advantages of Mechanical Pump Products

Easy Installation

Customized interface structure

Efficient Motor House

Efficient air-cooled heat dissipation, reliable structure, low noise

Anti Rusting and Corrosion

Full stainless-steel water passing components

Efficient Leakage-Prevention

SIC sealing, heat and wear resistance, high reliability

High Reliability

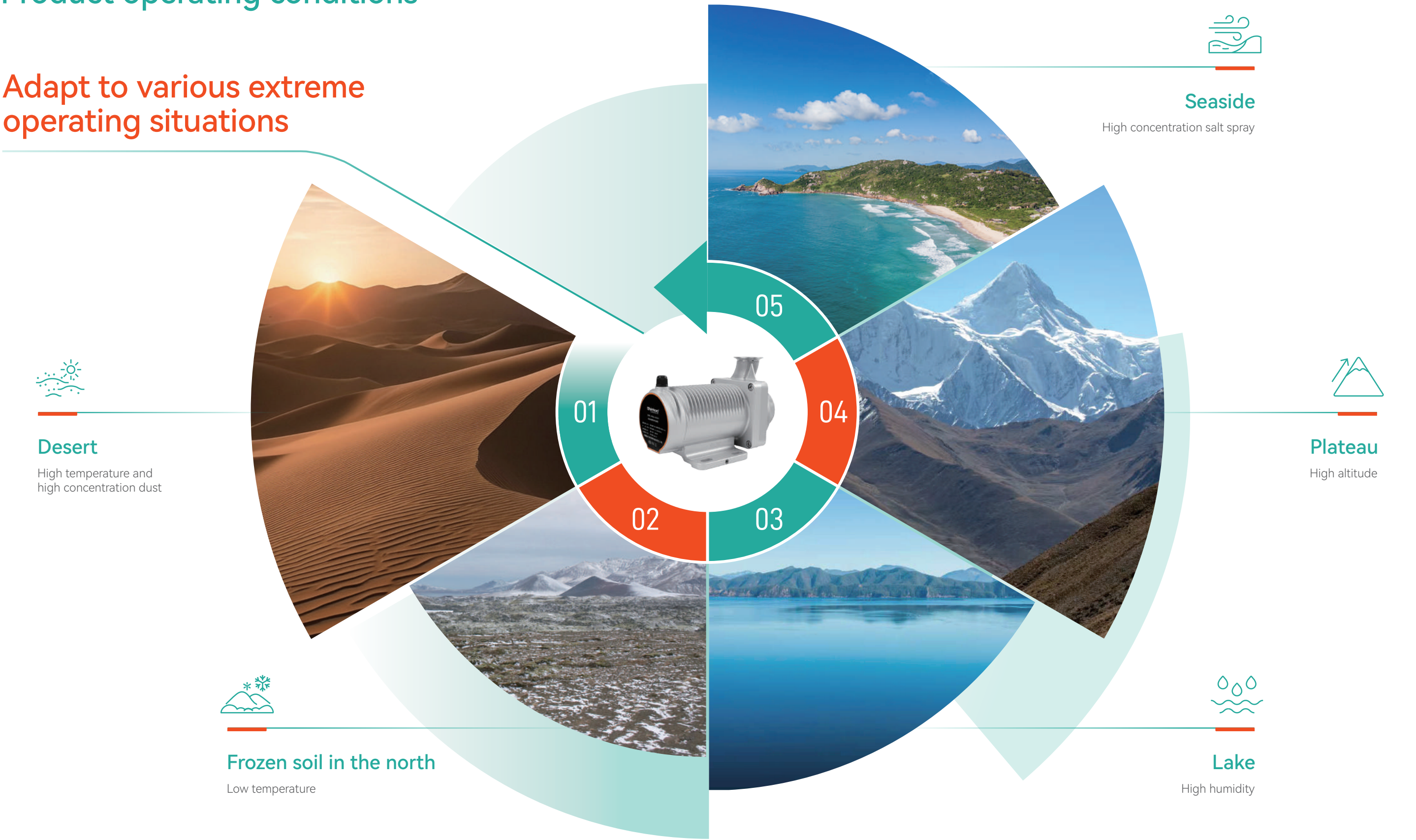
Starting from IP55,480H salt spray

Application scenarios



Product operating conditions

Adapt to various extreme operating situations



Project case



A wind, solar and water energy integrated storage project in Qinghai province

Total Volume
7170_{MW}

Thermal management units



CONTENT

Providing water pump circulation power for energy storage and temperature control system



SOLUTIONS

Liquid cooling and temperature control, customized products by Shinhoo, guaranteeing reliability and efficiency from design and production and tailoring multi-function solutions based on customers' needs



VALUES

Meeting customers' needs in an efficient and stable way, helping to optimize local industry structure, increase economy volume and consolidate development foundation



An energy storage project in Xinjiang

150_{MW}/
600_{MWH}
Energy storage powerstation volume



CONTENT

Providing water pump circulation power for energy storage and temperature control system




SOLUTIONS

Liquid cooling and temperature control, system efficiency was lifted by 4% to 6% to achieve fast response in 10 ms and mitigate the fluctuatuion and intermittence when the new energy charging station working. Providing services such as peak regulation, frequency regulation and power assistance to improve the grid quality and security



VALUES

The highest-altitude and largest-scale Cascaded High-Voltage Energy Storage Charging Station in the world up to now



GIVE THE SYSTEM A
STRONG HEART

Shinhoo