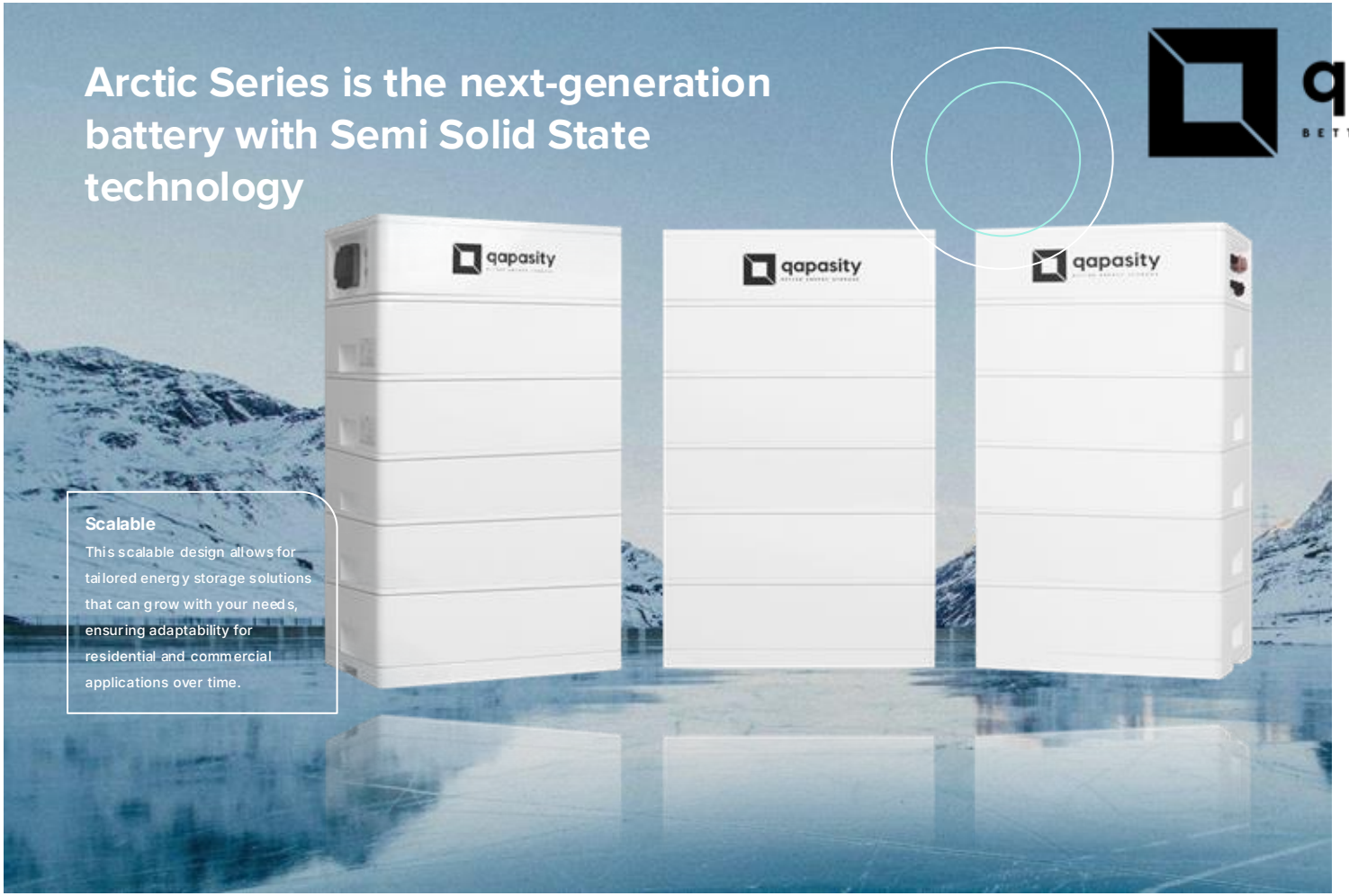
Arctic Series is the next-generation battery with Semi Solid State technology

qapasity
BETTER ENERGY STORAGE



Scalable
This scalable design allows for tailored energy storage solutions that can grow with your needs, ensuring adaptability for residential and commercial applications over time.

Adapted for Nordic Climates
Designed for harsh conditions, retaining high capacity even in temperatures as low as -20°C, and built for outdoor placement.

Semi Solid State Technology
Offers next-generation safety with reduced fire risks and improved energy density, ensuring reliable performance.

Scalable Modular Design
Flexible configuration ranging from 10.84 kWh to 37.94 kWh with 2–7 modules, tailored to individual energy needs.

Compatible with AI-optimized EMS
Compatible with market-leading inverters that support AI-optimized energy management systems (EMS) for smart control of energy consumption and energy trading.

High Safety Standards
Certified to the highest fire safety and performance standards, ensuring secure operation under all conditions.

qapasity - ARCTIC SERIES - DATA SHEET

Model	Arctic Series 10.84	Arctic Series 16.26	Arctic Series 21.68	Arctic Series 27.1	Arctic Series 32.52	Arctic Series 37.94
Battery Chemistry	LFP - Semi Solid State	LFP - Semi Solid State	LFP - Semi Solid State	LFP - Semi Solid State	LFP - Semi Solid State	LFP - Semi SolidState
Cell Manufacturer	Qingtao	Qingtao	Qingtao	Qingtao	Qingtao	Qingtao
Cell	QT-112125352	QT-112125352	QT-112125352	QT-112125352	QT-112125352	QT-112125352
Cell Nominal Voltage (V)	3.2	3.2	3.2	3.2	3.2	3.2
Cell Minimum Voltage (V)	2.5	2.5	2.5	2.5	2.5	2.5
Cell Maximum Voltage (V)	3.65	3.65	3.65	3.65	3.65	3.65
Cell Energy Density (Wh/kg)	181.4	181.4	181.4	181.4	181.4	181.4
Cell Weight (kg)	0.935	0.935	0.935	0.935	0.935	0.935
Cell Configuration	(2*32)S1P	(3*32)S1P	(4*32)S1P	(5*32)S1P	(6*32)S1P	(7*32)S1P
BMS (Battery Management System)	Shenzhen Tian Power Technologies Co Ltd	Shenzhen Tian Power Technologies Co Ltd	Shenzhen Tian Power Technologies Co Ltd	Shenzhen Tian Power Technologies Co Ltd	Shenzhen Tian Power Technologies Co Ltd	Shenzhen Tian Power Technologies Co Ltd
Number of Modules	2	3	4	5	6	7
Nominal Energy (kWh)	10.84	16.28	21.71	27.14	32.56	37.99
Nominal Voltage (V)	204.8	307.2	409.6	512	614.4	716.8
Nominal Capacity (Ah)	53	53	53	53	53	53
Usable Energy (kWh)	9.77	14.65	19.54	24.42	29.31	34.19
Recommended Depth of Discharge (DoD)	90%	90%	90%	90%	90%	90%
Dimensions (H x W x D), mm	529 x 600 x 429	692 x 600 x 429	855 x 600 x 429	1018 x 600 x 429	1181 x 600 x 429	1344 x 600 x 429
Weight, kg	110	155	200	245	290	335
Placement	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor
Maximum and Minimum Ambient Temperature	-25 to +50	-25 to +50	-25 to +50	-25 to +50	-25 to +50	-25 to +50
Relative Humidity	5% to 95%	5% to 95%	5% to 95%	5% to 95%	5% to 95%	5% to 95%
IP Rating	IP 55	IP 55	IP 55	IP 55	IP 55	IP 55
Built-in Heating	Yes	Yes	Yes	Yes	Yes	Yes
Cooling	Natural convection	Natural convection	Natural convection	Natural convection	Natural convection	Natural convection
Maximum Number of Parallel Systems	10	10	10	10	10	10
Communication	Modbus / CAN	Modbus / CAN	Modbus / CAN	Modbus / CAN	Modbus / CAN	Modbus / CAN
Number of Cycles	>6000	>6000	>6000	>6000	>6000	>6000
Off Grid Ready	Yes	Yes	Yes	Yes	Yes	Yes