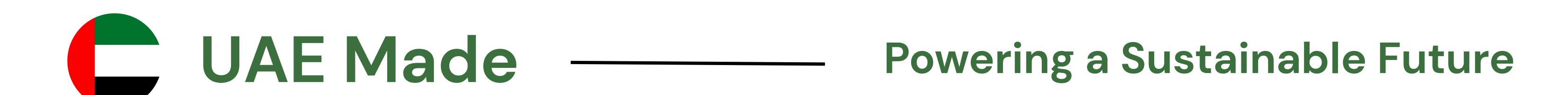


THE GREEN DESERT









CORPORATE PROFILE – ARRAKIS INTERNATIONAL POWER SOLUTIONS LLC



energy solutions provider, strategically headquartered in the United Arab Emirates. Combining Dutch engineering excellence with UAE-based innovation and manufacturing, ARRAKIS Power is committed to delivering high-performance renewable and hybrid energy solutions that drive sustainability and efficiency across industries.

Solutions

Household Energy Solution



Family can use solution to improve household energy management autonomy and flexibility, and effective use of renewable energy, reducing dependence on power grid, reduce the energy consumption cost; Ensure stable power supply in case of emergency, protect critical equipment from power outage.

Project Applications

Photovoltaic and energy storage (Charging) Integrated System, improve energy efficiency

Utilizing peak valley electricity price differences to reduce electricity expenses

No (weak) grid areas, to achieve energy self-sufficiency

Emergency backup power supply, ensure the normal operation of key equipment in case of power failure

Solution Highlights

Integrate distributed energy and realize intelligent household electricity management

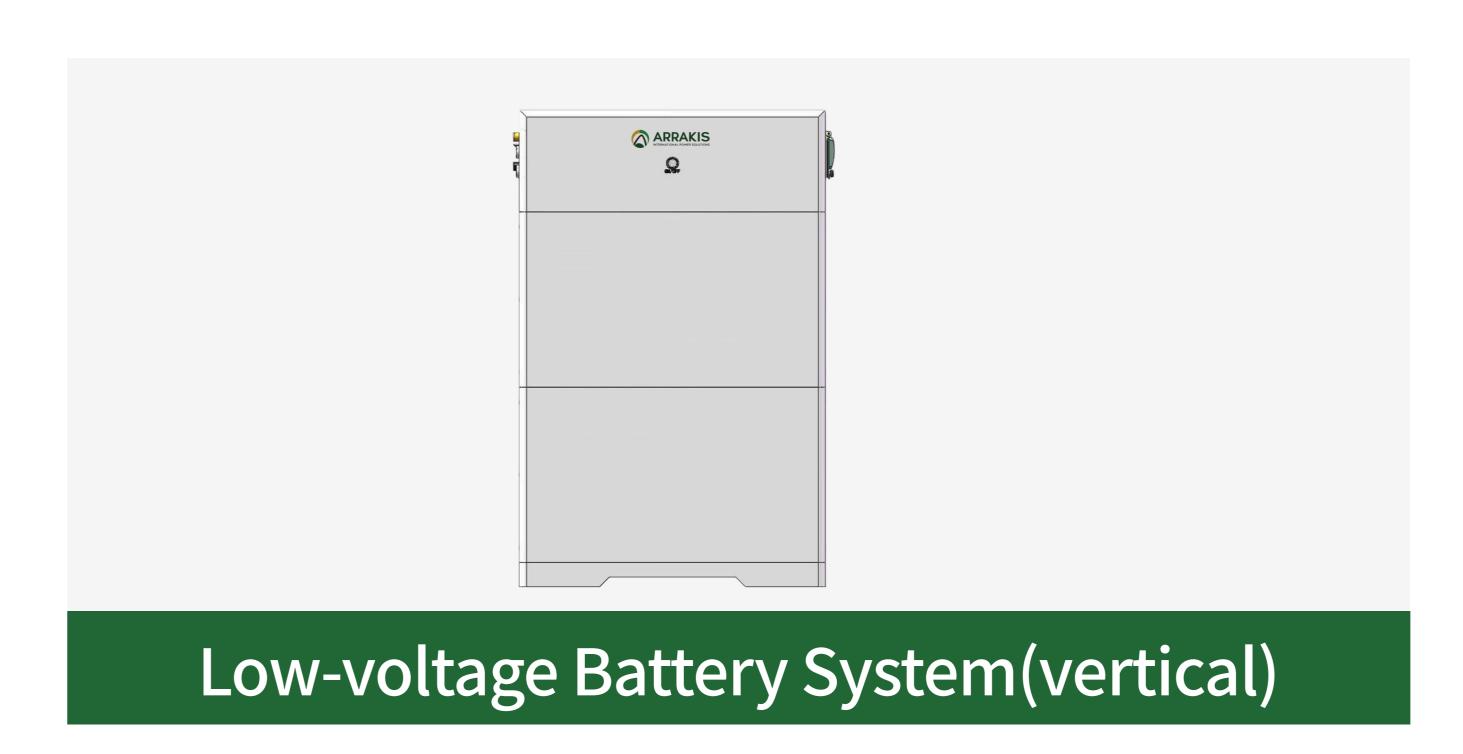
Promote green and sustainable lifestyles and achieve zero-carbon households

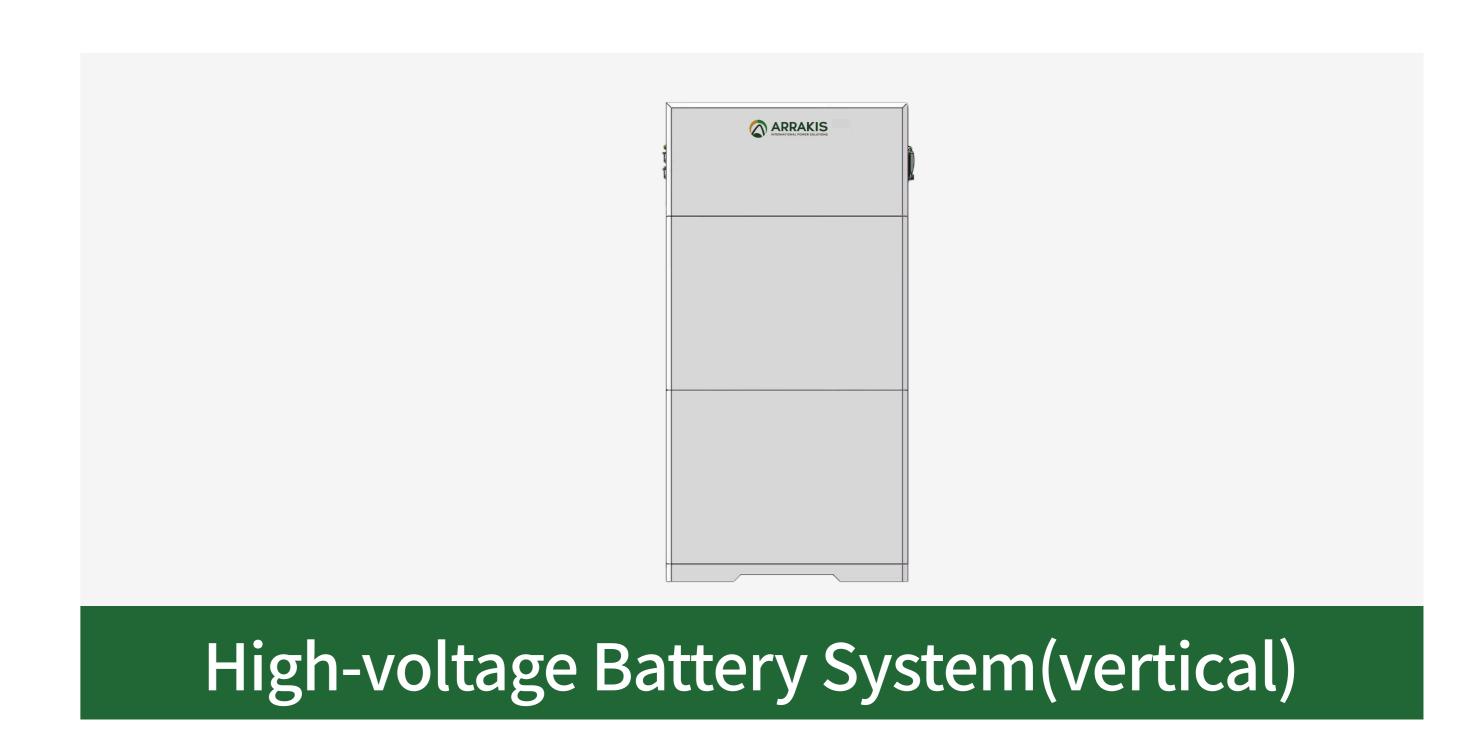
Build smart home micro-grids, optimize power consumption patterns, and improve grid friendliness

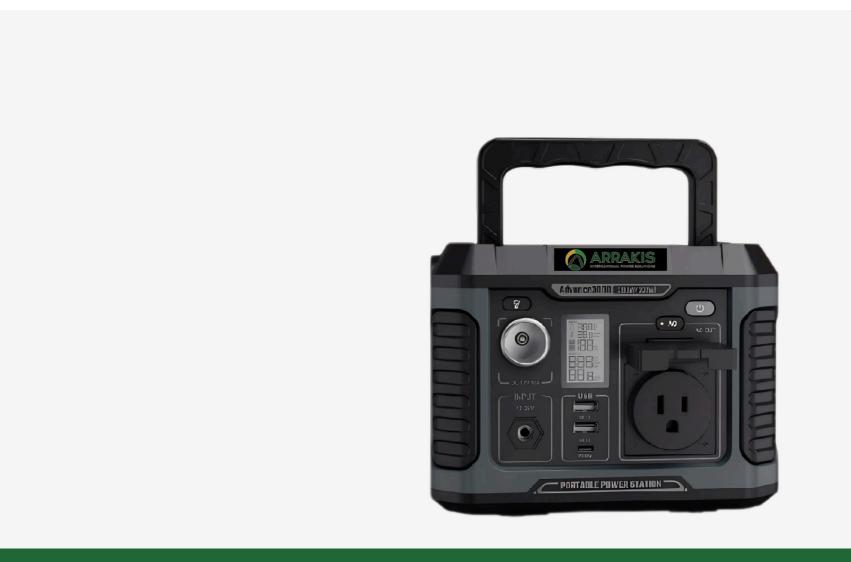
Recommended Products















Portable Power Station A300

Portable Power Station M1000

Portable Power Station M2200



Product Features

High Security

Batteries through strict test, obtains the IEC/UL certification.



Area classification fire control design, active safety monitoring and fire fighting.

Equipped with combustible gas detection, early warning, safe and reliable.

High Efficiency



With high thermal stability and long life cycle lithium iron phosphate cell, the cost per KWh is reduced by 30%.

Intelligent liquid cooling temperature control, reduce the auxiliary power consumption of the system.

Uniform temperature design, the cell temperature difference is smaller, and the comprehensive thermal management performance is better.

High Flexibility



Modular system and pre-installation design, easy to install and maintain.

Energy storage system self-diagnosis and self-repair function, reduce the cost of on-site labor operation and maintenance. Intelligent remote monitoring platform, support remote upgrade and maintenance.

High Intelligence



Configure local control and remote monitoring platforms.

Collect and monitor the status information of each component of energy storage system in real time.

System data analysis, intelligent terminal visual display.

	Product Parameters			
Model	CESS-G10-B5016			
	DC parameters			
Battery type	LFP 3.2V/314Ah			
Rated energy	5MWh			
Configuration	1P416Sx12			
Maximum charge and discharge rate	0.5P			
Rated voltage	1331.2V			
Voltage range	1164.8~1497.6V			
Discharge depth	95%			
	System parameters			
Weight	About 48Tons			
Dimension (L*W*H)	6250*2650*3200 mm			
IP grade	IP54			
Cycle life	10000 cycles @25°C,0.5C			
Communication mode	LAN/RS485/CAN			
Anti-corrosion grade	C3/C4(optional)			
Cooling method	Liquid cooling			
Temperature range	-20-50°C			
Relative humidity	≤95%RH, no condensation			
Noise	<80dB(A),@1m			
Altitude	≤4000m			
Fire protection system	Temperature sensing + smoke alarm + combustible gas detection + explosive ventilation + fire extinguishing gas + water spray reserved			

Liquid Cooling Commercial and Industrial Energy Storage Cabinet

100kW/215kWh 100kW/233kWh 100kW/241kWh 125kW/261kWh



Product Features

High Security

PACK and key components with IP65 level protection.



Multi-level fire design, perfluoro PACK level fire protection.

Combustible gas detection and explosion relief venting design, suppression of thermal runaway.

High Efficiency



15-year long effective life cycle.

Liquid cooling heat dissipation, system temperature difference≤3°C, the overall system efficiency ≥88.5% at room temperature. SOC error at room temperature <2%, effectively improve the system utilization rate.

High Flexibility



Small individual weight and small footprint (single cabinet occupies 1.3m²).

Simple construction, plug and play.

Modular design, support multi-cabinet parallel, easy to install and maintain.

High Intelligence



Cloud operation and maintenance, support multi-platform APP.

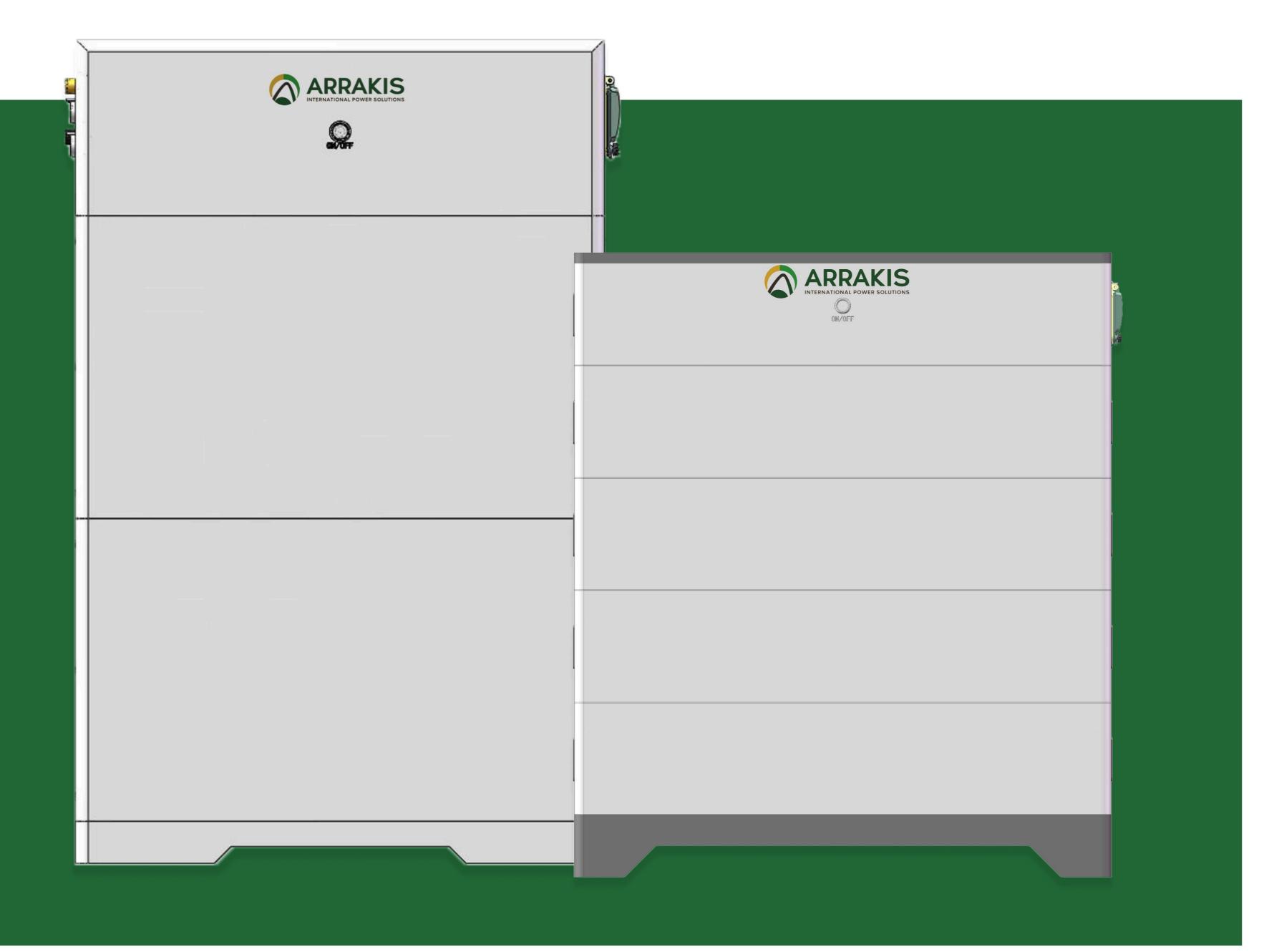
Intelligent EMS system, 24h real-time monitoring.

Support peak load shifting, demand management and other operation strategies.

	Pr	oduct Param	neters			
Model	DESS-T10-B215	DESS-T10-B240	DESS-T10-B233	DESS-T10-B261		
Category		Standard				
Battery parameters						
Battery type	LFP 3.2V/280Ah	LFP 3.2V/314Ah	LFP 3.2V/280Ah	LFP 3.2V/314Ah		
Battery capacity	43kWh/1P48S	48.23kWh/1P48S	46.59kWh/1P52S	46.59kWh/1P52S		
Configuration	215kWh/1P240S	241kWh/1P240S	233kWh/1P260S	261kWh/1P260S		
Rated energy	215kWh	241kWh	233kWh	261kWh		
Rated voltage	768V 832V			32V		
Voltage range	672-	672-864V 728-936V		-936V		
Charge and discharge rate	0.5P 0.5P			.5P		
Discharge depth	95%					
	AC parameters					
Rated power	100kW	100kW	100kW	125kW		
Maximum AC power	110kW	110kW	110kW	137.5kW		
Harmonic current distortion rate	<3% at nominal power					
Rated grid voltage		400Va	c±15%			
Rated grid frequency		50/60Hz				
		System parame	ters			
Weight	约24	约2400Kg 约2500Kg				
Dimension(L*W*H)		1380*955*2400mm				
IP grade		IP54				
Cycle life		>8000 cycles @25°C,0.5C				
Charge and discharge switching time		<100ms				
Communication mode		LAN/RS	485/CAN			
Anti-corrosion grade		C3/C4 (optional)				
Cooling method		Liquid cooling				
Temperature range		-20~55°C				
Relative humidity		5~95%RH,no condensation				
Noise		≤75dB				
Altitude	Cambus	≤2000m Combustible gas detection/smoke alarm/temperature sensing +				
Fire protection system			ire protection+Water fir			

Residential Energy Storage System

Low-voltage Battery System
High-voltage Battery System



Product Features

High Security



IP65 (horizontal)/IP55 (vertical) level protection, dustproof and waterproof, to ensure the stable and reliable operation of the equipment.

BMS real-time fault detection, multi-level warning information uploaded to the cloud and mobile, comprehensive protection of equipment and user safety.

High Efficiency



Refined thermal management, system temperature difference < 3°C, ensuring high efficiency output.

High-precision BMS management system effectively extends battery life and improves overall system performance. Integrated design, simple debugging, easy to use.

High Flexibility



Compatible with a variety of interfaces and communication protocols, supporting seamless integration of different brands of inverters.

Fully modular design, convenient for maintenance and capacity expansion, and can easily cope with different needs.

Off-grid switching and off-grid operation provide flexible choices for users' energy management.

High Intelligence





Suitable for various application scenarios, to achieve a variety of operation strategies, such as peak load shifting and critical load backup.

Real-time exchange of cloud data and support for remote OTA upgrade.

	Low-voltage Bat	tery Systen	n Technical P	arameters		
Model	HESS-T20-B05	HESS-T20-B10	HESS-T20-B15	HESS-T20-B20		
Battery type	LFP					
Module quantity	1S	2S	3S	4S		
Rated energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh		
Nominal voltage		51.2	VDC			
Voltage range	40-58VDC					
Maximum charge/ discharge current		100	AC			
Recommended discharge depth	95%					
Service life		10ye	ears			
IP grade		IP65(horizontal)	/IP55 (vertical)			
PACK size (L*W*H)	630*160*360mm	(vertical)	634*400*195	mm(horizontal)		
Weight	50Kg	100Kg	145Kg	190Kg		
Main control box size (L*W*H)	630*160*320mm(vertical) 634*400*170mm(horizontal)		mm(horizontal)			
Base size (L*W*H)	630*160*50mm(vertical)	634*400*100	mm(horizontal)		
Temperature range		-25-6	50°C			
Cooling method	Natural air cooling					
Operating humidity	0-95%(no condensation)					
Altitude	≤2,000m					
Installation mode		Stac	ked			
Communication mode		CAN,R				
	High-voltage Bat	ttery Syster	n Technical P	arameters		
Model	HESS-T20-C10	HESS-T	20-C15	HESS-T20-C20		
Battery type		LF	P			
Module quantity	25	35	S	4S		
Rated energy	10.24kWh	15.36	kWh	20.48kWh		
Nominal voltage	204.8V	307	.2V	409.6V		
Voltage range	172.8-233.6V	259.2-3	350.4V	345.6-467.2V		
Maximum charge/ discharge current		50	A			
Recommended discharge depth		959	%			
Service life		10ye	ears			
IP grade	IP65 (horizontal)/IP55 (vertical)					
PACK size (L*W*H)	680*165*530mm (vertic	cal)	764*435*	196.5mm (horizontal)		
Weight	125Kg	177	Kg	229Kg		
High voltage box size (L*W*H)	680*181*320mm (vertic	cal)	764*435	5*180mm (horizontal)		
Base size (L*W*H)	650*181*50mm (vertic	al)	764*435	5*100mm (horizontal)		
Temperature range		-25-6	50°C			
Cooling method	Natural air cooling					
Operating humidity	0-95%(no condensation)					
Altitude	≤2000m					
Installation mode		Stac	ked			
Communication mode		CAN,R	2S485			

Portable Power Station

Advance300

Master1000

Master2200





Product Features

High energy density, smaller size, easy to carry
Reinforced battery holder design, super anti-drop and anti-vibration
Equipped with NCM battery cells, 800 cycles of battery capacity is higher than 80%
3 charging modes, easy to cope with all kinds of mobile scenarios
BMS battery management, actively improve battery safety
EPS emergency power supply, 10 milliseconds automatic switching power supply mode

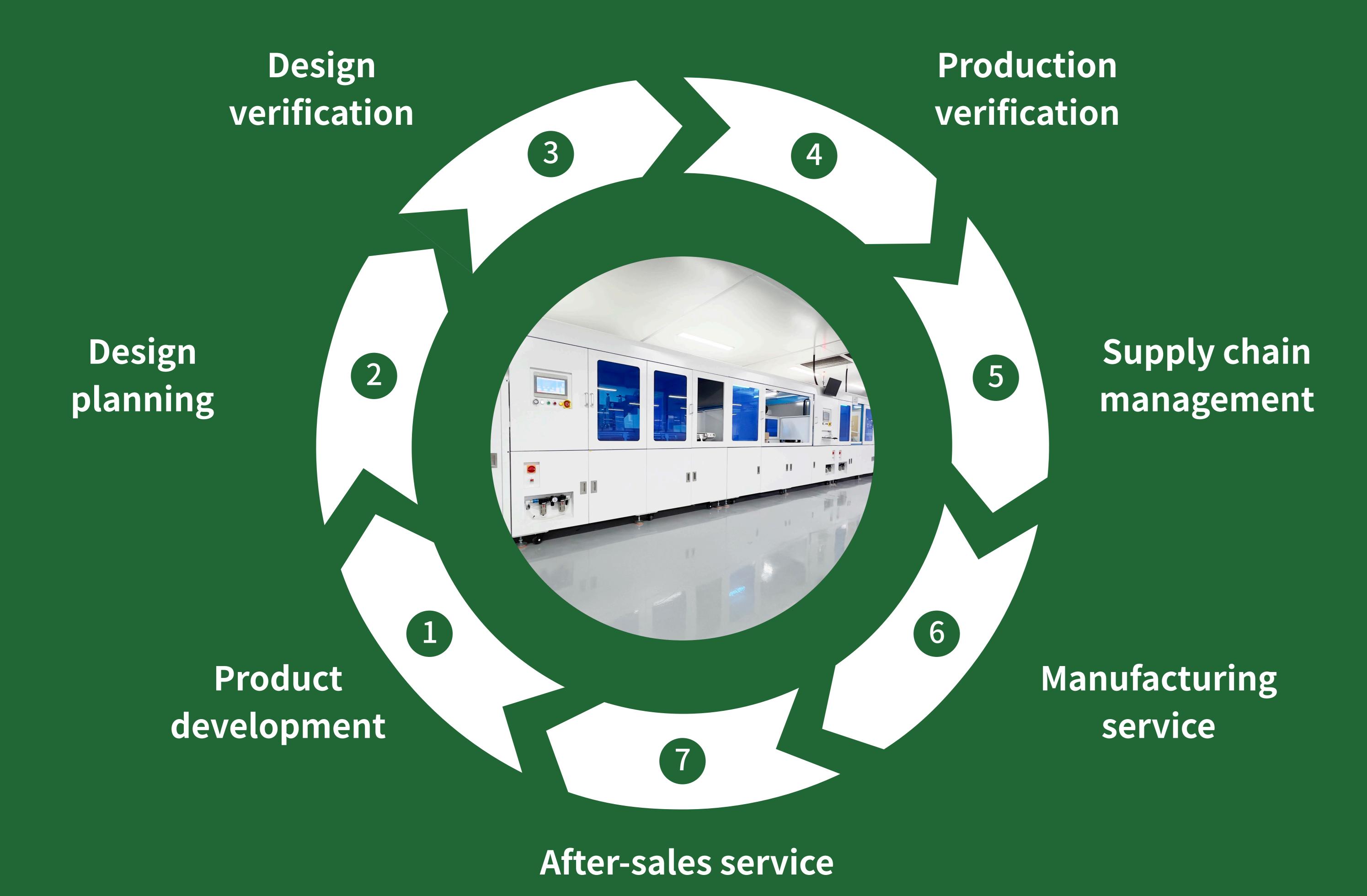
Product Parameters PPS-Advance300 Model PPS-Master1000 PPS-Master2200 Appearance PORTABLE POWER STATION Capacity 1944Wh(43.2V,45Ah) 231Wh(14.8V,15.6Ah) 808Wh(22.2V,36.4Ah) AC input:48W Max AC input:500W Max AC input:1000W Max Solar panel input:18-24V(55W Max) Solar panel input:12-28V,200W Max Solar panel input:12-60V,800W Max Input USB-C fast charging:100W Max Car charger input:12V,80W Max Car charger input:12V,60W Max 3xRated power2200W, 1xRated power300W, 2xRated power1000W, AC output Peak power450W Peak power 4400W Peak power2000W 2xDC5525, 1xCar charging output, 1xCar charging output, 12-16.8V8A Max 12V10A Max 1xCar charging output, DC output 12V10A, 120W Max USB-C:1xPD3.0(30W Max) USB output USB-C:1xPD3.0(100W Max) USB-C:1xPD3.0(Bi-directional Bi-directional 100W Max) 1x1W Flashlight (SOS mode) 1x10W Wireless charging 1x10W Wireless charging Additional functions 1x1W LED light(SOS mode) 1x1W LED light 1x1W Flashlight (SOS mode) Product size (L*W*H) 192x142x148mm 350x265x240mm 290x201x200mm

Charge temperature:0~40°C,Discharge temperature:-10~40°C



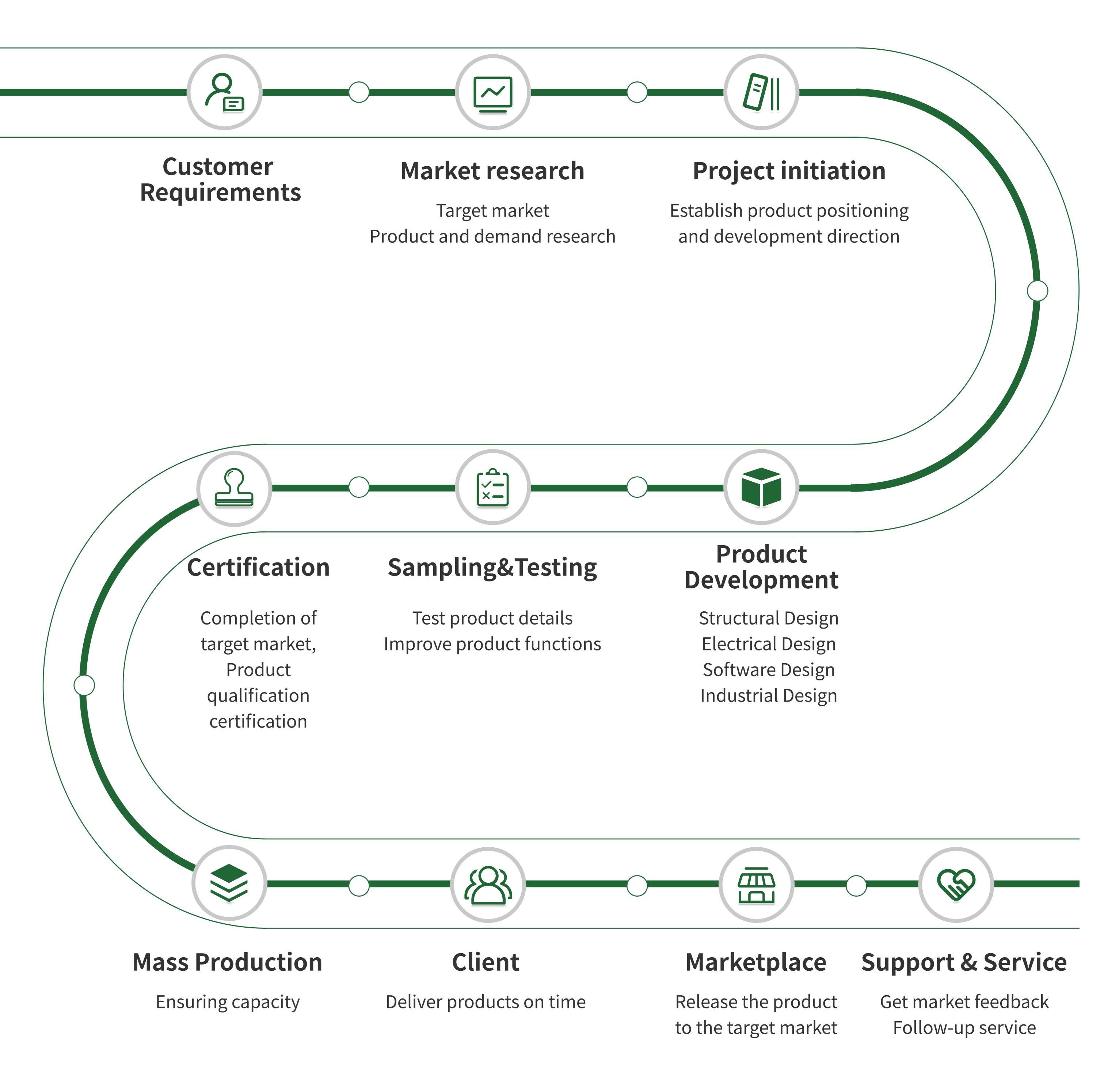
Comprehensive service ecological chain

ARRAKIS Energy's comprehensive service concept runs through the entire product life cycle, integrating advanced technology and industry cutting-edge science and technology into the entire process of product development and manufacturing, and providing customers with a full-service ecological chain of wisdom and empowerment from concept to delivery.

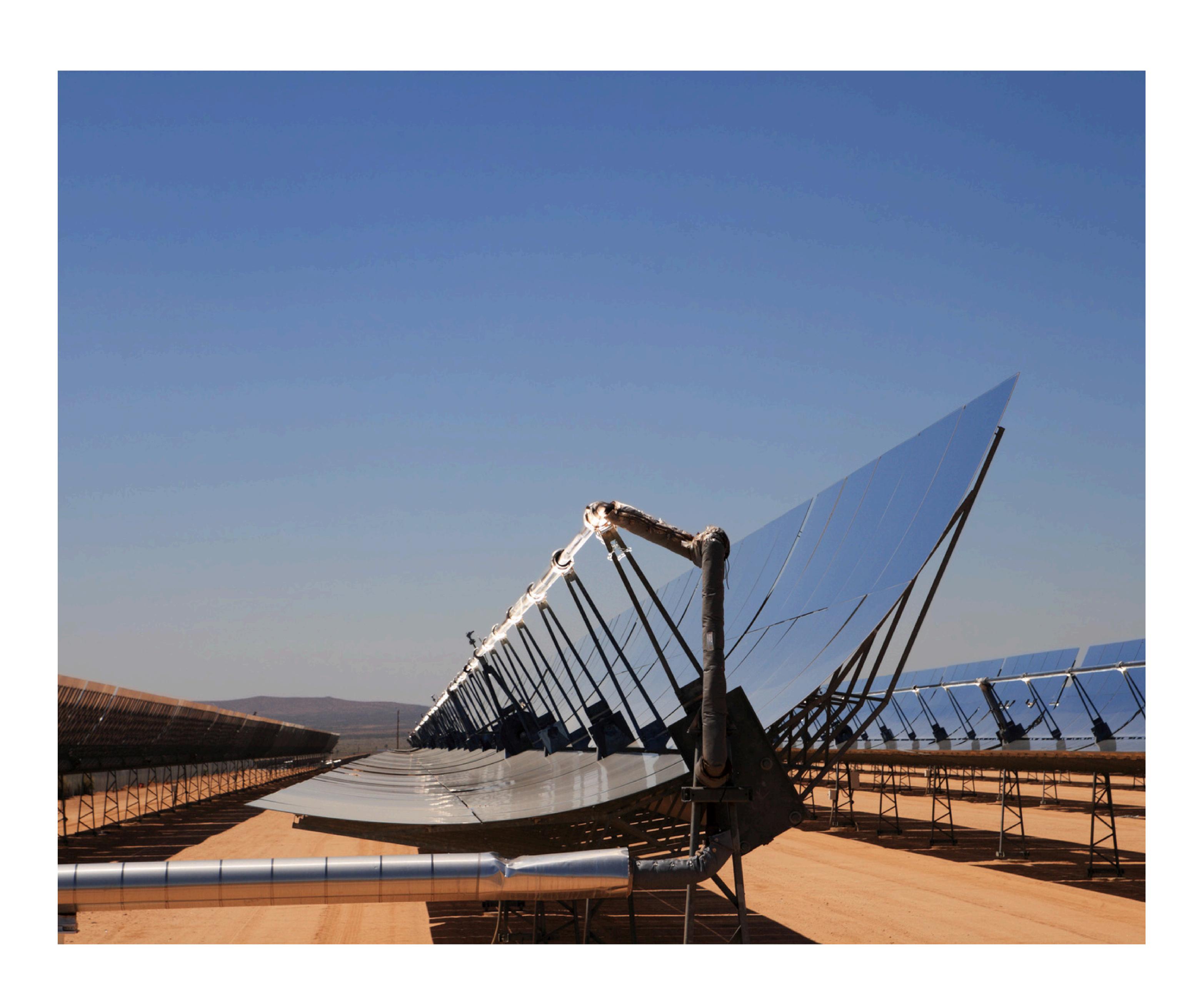


Customized Services (ODM/OEM)

ARRAKIS power provides one-stop energy storage system customization services, with fully automated production lines, strong production capacity and superb control of details, to meet the needs of customers in many areas of energy storage product customization, to help complete the product blueprint.







SHAPING A GREENER TOMORROW, TOGETHER

At ARRAKIS International Power Solutions LLC, we remain committed to advancing global energy transformation by delivering Dutch-engineered, UAE-made clean power solutions.

With Mr. Sheikh Tariq leading the vision in the UAE and our international team driving innovation across Asia and Europe, we are dedicated to empowering industries, communities, and nations with sustainable energy solutions.

- Renewable. Reliable. Responsible.
- Local Excellence. Global Reach.
- Innovating for a Sustainable Future

ARRAKIS International Power Solutions LLC

UAE Headquarters | Serving Global Markets