ACTIONPOWER PRODUCT CATALOG 2025

Powering Action
Empowering the Future

actionpowertest.com

Contents

Founded in 1996, Xi'an ActionPower Electric Co., Ltd. is a specialized power electronics company with nearly three decades of experience in designing and manufacturing power supply systems. Our product lines cover test power supplies, power quality control solutions, and industrial power equipment, supporting sectors such as renewable energy, electric vehicles, aerospace, and industrial automation.

Today, ActionPower's power systems—from modular designs to megawatt-scale cabinet solutions—are trusted by leading enterprises in renewable energy industry. Guided by our overseas slogan, "Powering Action, Empowering the Future," we continue to support the global transition toward clean energy and efficient power systems through reliable solutions and long-term collaboration.

WE ARE PROFESSIONAL POWER SUPPLY PRODUCTS AND TEST SOLUTION PROVIDER

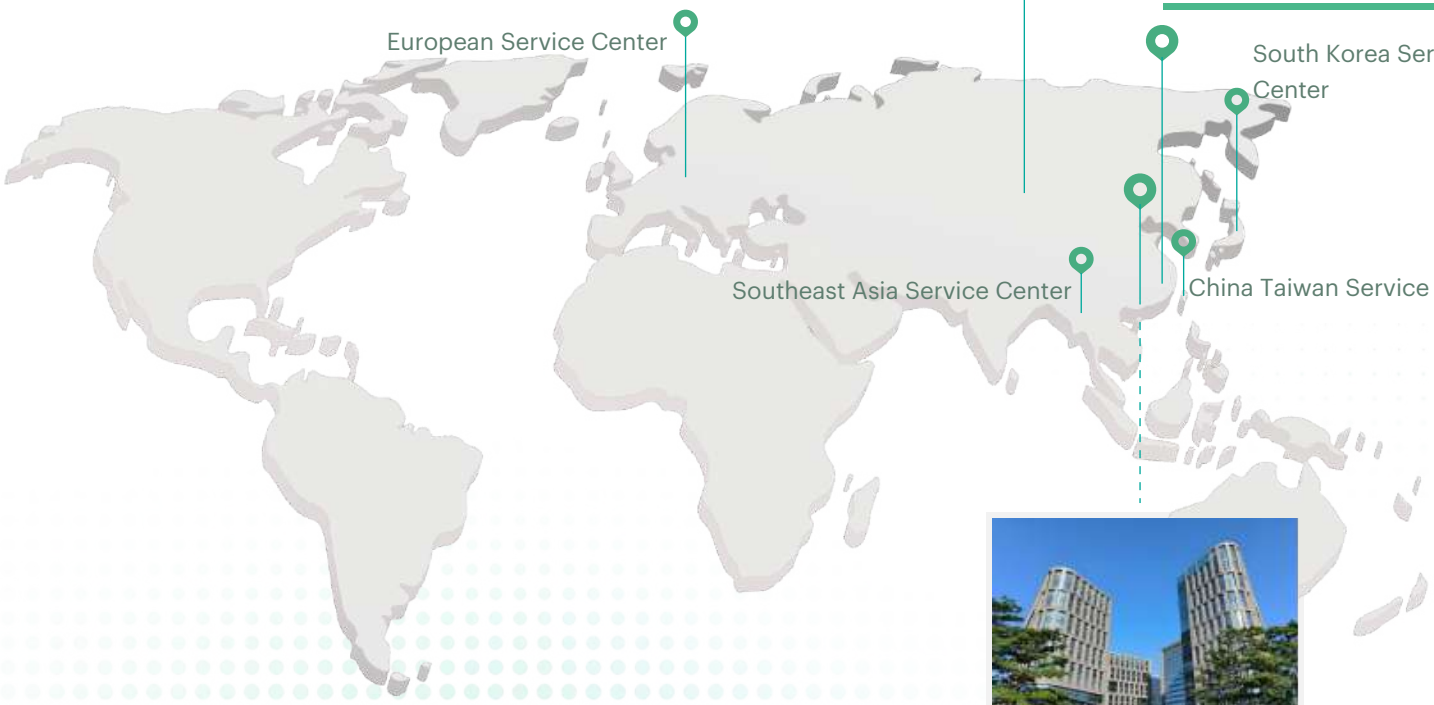
1100+	2+	249+	40000㎡	3000㎡
Employees	R&D Production Bases	Authorized Patents	Intelligent Manufacturing Plant	R&D Experiment Center

Xi'an ActionPower Industry Park

Xi'an Headquarters

Suzhou ActionPower Industry Park

Suzhou Subsidiary



Shenzhen Lab and Marketing Service Center

Shenzhen Branch

Milestones & Achievements

1996 -2003

Founded in **Xi'an**, started business with Customized Power Products;
Kept Focusing on product R&D and start new fields of **Harmonic Suppression**

2004-2014

In 2011, won Chinese Awards for Progress in Science and Technology by **Active Power Filter;**
Sales Revenue exceeding **$13.9 million**

2015-2022

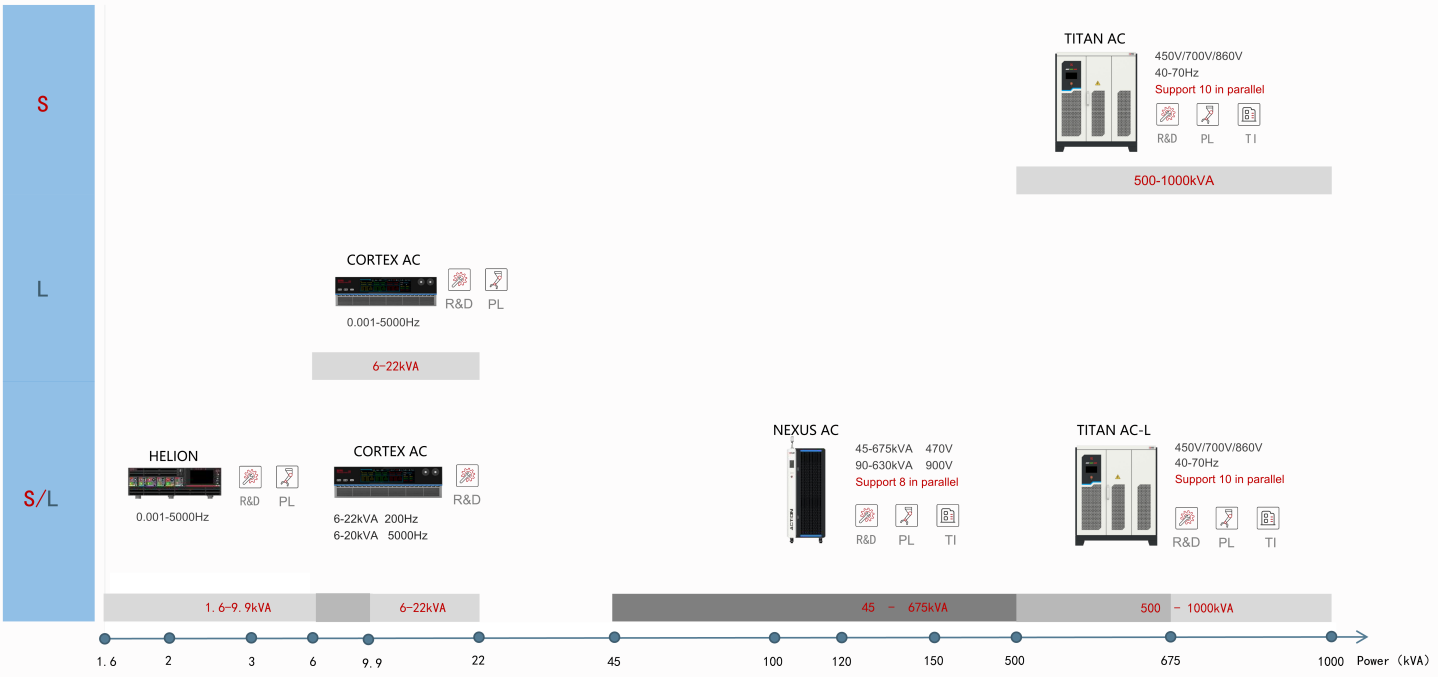
In 2015, won Chinese Awards for Progress in Science and Technology again with **Accelerator Power Supply;**
In 2020, established partnership with **Huawei, BYD;**
In 2021, sales revenue exceeding **$69.481 million**

2022-2024

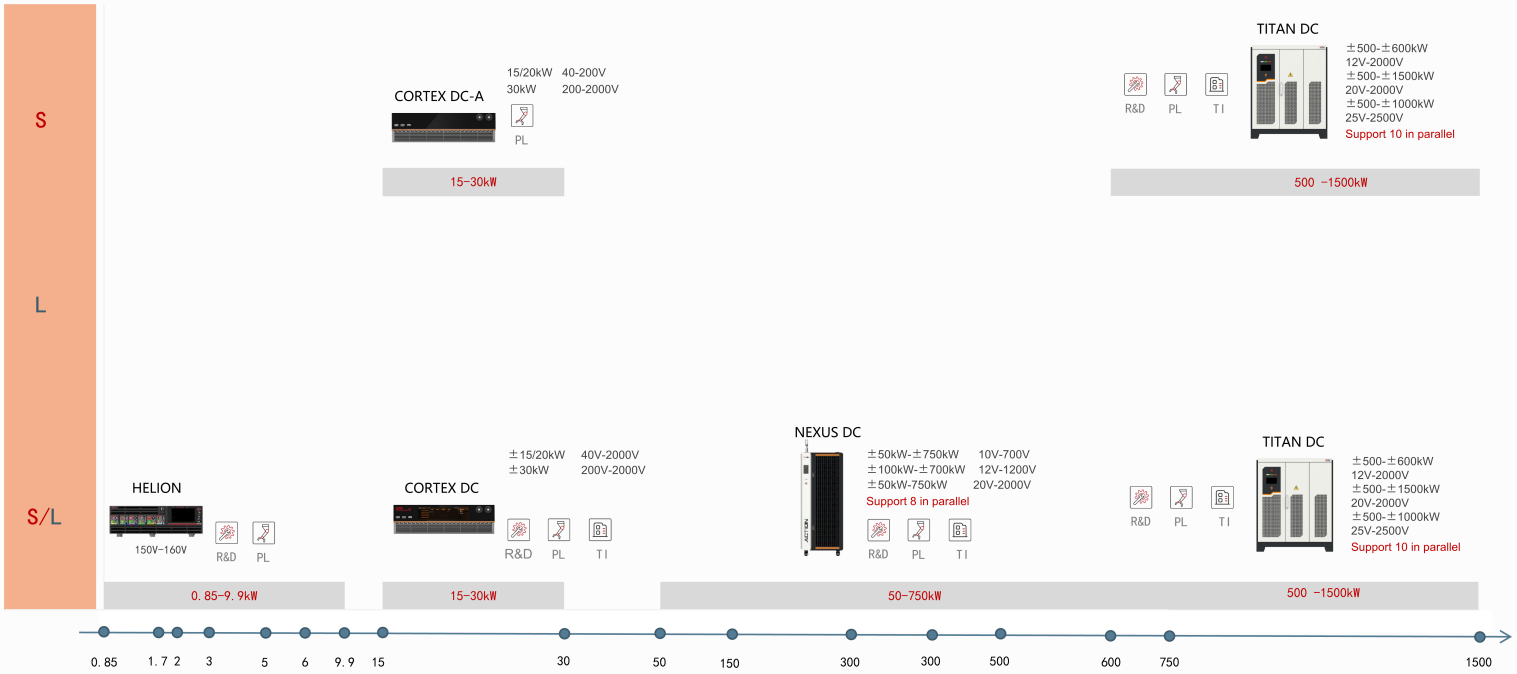
Successful listed in Sci-Tech innovation board **(ACTIONPOWER 688719)**;
Sales revenue exceeding **$138.96 million**;
New Industry Park started construction in Xi'an;
Launched **Overseas Business Operations**

Product Overview

AC Power Supply Portfolio



DC Power Supply Portfolio



Cortex DC series

OVERVIEW

The Cortex DC series is a new-generation bidirectional programmable DC power supply with source and sink capability, enabling automatic two-quadrant operation and energy feedback absorption.

ADVANTAGES

- High Dynamic : 500μs
- High Accuracy : 0.02%
- High Voltage Output : 2000Vdc
- Support Zero Volt Input
- Digital Matrix Parallel System : up to 3MW
- Automatic Sourcing and Loading
- Function Generation
- High Power Density : 30kW/3U
- Battery Simulation
- PV Simulation

EV Battery Testing

Solar Array Simulator Testing

Fuel Cell Discharge Testing

Onboard Charger Stability Testing

ACTION POWER

DC EVSE Stability Testing

ESS Testing
(Solar Array & Battery Simulator)

Power Electronic
Components Testing

Server Power Supply Reliability
Testing

Power	Model	Voltage	Current
15kW	CD15-040B CE	40	±667
	CD15-060B CE	60	±667
	CD15-080B CE	80	±667
	CD15-200B	200	±160
	CD15-360B	360	±160
	CD15-500B	500	±120
	CD15-600B	600	±120
	CD15-800B CE	800	±54
	CD15-1K0B CE	1000	±54
	CD15-1K5B CE	1500	±45
	CD15-2K0B CE	2000	±45

Power	Model	Voltage	Current
20kW	CD20-040B CE	40	±667
	CD20-060B CE	60	±667
	CD20-080B CE	80	±667
	CD20-200B	200	±240
	CD20-360B	360	±240
	CD20-500B	500	±180
	CD20-600B	600	±180
	CD20-800B CE	800	±80
	CD20-1K0B CE	1000	±80
	CD20-1K5B CE	1500	±60
	CD20-2K0B CE	2000	±60

Power	Model	Voltage	Current
30kW	CD30-200B	200	±240
	CD30-360B	360	±240
	CD30-500B	500	±180
	CD30-600B	600	±180
	CD30-800B CE	800	±80
	CD30-1K0B CE	1000	±80
	CD30-1K5B CE	1500	±60
	CD30-2K0B CE	2000	±60

Model	40V/60V/80V	200V/360V	500V/600V	800V/1000V	1500V/2000V
AC Input					
Voltage, Phases	304Vac to 480Vac / 380V±20%, 3ph+PE				
Frequency	47Hz to 63Hz				
Inrush Current	<50A				
Power Factor	0.99				
Efficiency up to	93.5%	94%	95%	94%	95%
DC Output Voltage					
Accuracy	±0.02% F.S.				
Resolution	±1mV	±10mV			
Display Accuracy	±0.02% F.S.				
Line Regulation CV	±0.01% F.S. (208-408V AC±10% input voltage, constant load and constant temperature)				
Load Regulation CV	±0.01% F.S. (0-100% load, constant load and constant temperature)				
Ripple (rms) CV	<25mV	<60mV	<200mV	<200mV	<400mV
Ripple and Noise p-p CV	<300mVpp	<480mVpp	<1000mVpp	<1200mVpp	<2400mVpp
Remote Compensation	Max.voltage±1V	Max.voltage and 2%F.S.±1V			
Rise Time 10%90% CV	2.5ms				
Fall Time 90%-10% CV	2.5ms	500μs			
Voltage Slew Rate	50V/ms	200V/ms	1500V/ms	600V/ms	5000V/ms
Recovery Time	2.5ms±0.75%F.S.	500μs ±0.75% F.S. (50% -100% or 100% -50/% load)			
Discharge Time	≤20s	≤20s	≤30s	≤20s	≤30s
DC Output Current					
Accuracy	±0.15% F.S.	±0.02% F.S.			
Resolution	±100mA	±10mA			
Display Accuracy	±0.15% F.S.	±0.02% F.S.			
Display Resolution	±10mA	±1mA			
Line Regulation CC	±0.01% F.S. (208-408V AC±10% input voltage, constant load and constant temperature)				
Load Regulation CC	±0.05% F.S. (0-100% load, constant load and constant temperature)				
Rise Time 10%-90% CC	2.5ms	500μs			
Fall Time 90%-10% CC	2.5ms	500μs			
DC Output Power					
Accuracy	±30W	±3W	±0.01% F.S.	±3W	±0.01% F.S.
Resolution	±10W	±1W			
Display Accuracy	±30W	±3W			
Display Resolution	±10W	±1W			
Resistance					
Range	0.003-100Ω	0.05-100Ω	0.5-3000Ω	0.05-100Ω	0.5-3000Ω
Programming Accuracy	1mΩ	0.01Ω	0.1Ω	0.01Ω	0.1Ω
Programming Resolution	1mΩ	0.01Ω	0.1Ω	0.01Ω	0.1Ω
Protective Functions					
OVP	Over-voltage protection, adjustable 0 - 110% UNominal (±1% F.S.)				
OCP	Over-current protection, Adjustable 0V- ±110% INominal (±1% F.S.)				
OPP	Over-power protection, range 0V ~ ±110% PNominal (±1% F.S.)				
OTP	Overt-temperature protection				
Interface					
Type-B USB, Ethernet, CAN, RS232, RS485, ModBus TCP					
Device Configuration					
Parallel Operation	Up to 100 units with energy-matrix bus (3MW)				
Environmental Conditions					
Operating Temperature	0 to 50 (°C) (power derating over 35°C)				
Storage Temperature	-20 to 70(°C)				
Humidity	≤ 90%. Not condensing				
Altitude	Output current derating 2%/100m above 2000m or derating 1°C/100m				
Cooling	Air cooling				
Dimension & Weight					
Dimensions (WxHxD)	435mm x 132mm x 781mm				
Weight	40kg	35kg			

CE Model	40V/60V/80V	800V/1000V	1500V/2000V
AC Input			
Voltage, Phases	304Vac to 480Vac / 380V±20%, 3ph+PE		
Frequency	47Hz to 63Hz		
Inrush Current	<50A		
Power Factor	0.99		
Efficiency up to	93.5%	94%	95%
DC Output Voltage			
Accuracy	10mv	50mv	100mv
Resolution	±1mV	±10mV	
Display Accuracy	±0.02% F.S.		
Line Regulation CV	±0.01% F.S. (208-408V AC±10% input voltage, constant load and constant temperature)		
Load Regulation CV	±0.01% F.S. (0-100% load, constant load and constant temperature)		
Ripple (rms) CV	<25mV	<200mV	<400mV <300mVpp
Ripple and Noise p-p CV	<480mVpp	<1200mVpp	<2400mVpp Max.voltage±1V
Remote Compensation	Max.voltage and 2%F.S.±1V		
Rise Time 10%90% CV	2.5ms	800μs	
Voltage Slew Rate	500V/ms	1500V/ms	3000V/ms
Recovery Time	2.5ms±0.75%F.S.	600μs ±0.75% F.S. (50% -100% or 100% -50/% load)	
Discharge Time	≤20s	≤20s	≤30s
DC Output Current			
Accuracy	±0.15% F.S.	±0.02% F.S.	
Resolution	±100mA	±10mA	
Display Accuracy	±0.15% F.S.	±0.02% F.S.	
Display Resolution	±10mA		
Line Regulation CC	±0.01% F.S. (208-408V AC±10% input voltage, constant load and constant temperature)		
Load Regulation CC	±0.05% F.S. (0-100% load, constant load and constant temperature)		
Rise Time 10%-90% CC	2.5ms	500μs	
Fall Time 90%-10% CC	2.5ms	500μs	
DC Output Power			
Accuracy	±30W	±3W	±0.01% F.S. ±10W
Resolution	±1W		
Display Accuracy	±30W	±3W	
Display Resolution	±10W	±30W	
Resistance			
Range	0.003-100Ω	0.05-100Ω	0.5-3000Ω 1mΩ
Programming Accuracy	0.01Ω	0.01Ω	0.1Ω
Programming Resolution	1mΩ	0.01Ω	0.1Ω
Protective Functions			
OVP	Over-voltage protection, adjustable 0 - 110% UNominal (±1% F.S.)		
OCP	Over-current protection, Adjustable 0V- ±110% INominal (±1% F.S.)		
OPP	Over-power protection, range 0V ~ ±110% PNominal (±1% F.S.)		
OTP	Overt-temperature protection		
Interface			
Type-B USB, Ethernet, CAN, RS232, RS485, ModBus TCP			
Device Configuration			
Parallel Operation	Up to 100 units with energy-matrix bus (3MW)		
Environmental Conditions			
Operating Temperature	0 to 50 (°C) (power derating over 35°C)		
Storage Temperature	-20 to 70(°C)		
Humidity	≤ 90%. Not condensing		
Altitude	Output current derating 2%/100m above 2000m or derating 1°C/100m		
Cooling	Air cooling		
Dimension & Weight			
Dimensions (WxHxD)	435mm x 132mm x 781mm		
Weight	40kg	35kg	

Cortex AC series

OVERVIEW

The Cortex AC series is a regenerative AC source and load in one, supporting four-quadrant operation. It enables grid simulation, anti-islanding testing, and off-grid load emulation for new energy systems.


ESS Testing


PV Inverter Testing


Wind Turbine Testing

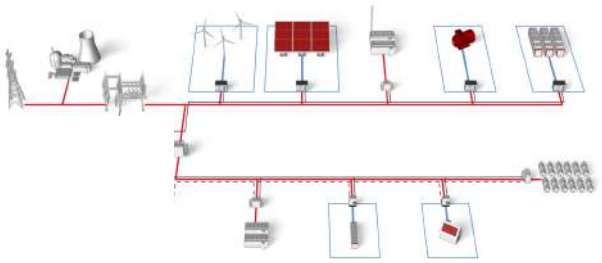

AC/DC Power Supply Testing


Power HiL


EV Charger & EVSE Testing

ADVANTAGES

- High Dynamic : 3V/μs
- High Accuracy : ±(0.01%+0.05% F.S.)
- High Voltage Output : 450Vac(L-N)
- Four Output Modes : AC, DC, AC+DC, DC+AC
- Built-in Library of Waveform for Testing Standard
- Digital Matrix Parallel System : up to 220kVA
- 12 * RLC Combinations to Simulate Real Conditions
- High Power Density : 22kVA/3U
- Regenerative AC Load
- Grid Simulation



Model	Power (kVA)	Voltage Range (LN_AC)	Frequency Range (Hz)	3-Phase Maximum Current (A)		1-Phase Maximum Current (A)		Voltage (V_DC)	Current (A_DC) Range
				rms	peak	rms	peak		
CA06-450	6	0-450	0.001-200	30	90	90	270	±636	±90
CA7.5-450	7.5	0-450	0.001-200	30	90	90	270	±636	±90
CA09-450	9	0-450	0.001-200	35	105	105	315	±636	±105
CA12-450	12	0-450	0.001-200	35	105	105	315	±636	±105
CA15-450	15	0-450	0.001-200	35	105	105	315	±636	±105
CA22-450	20	0-450	0.001-200	35	105	105	315	±636	±105

Model	Power (kVA)	Voltage Range (LN_AC)	Frequency Range (Hz)	3-Phase Maximum Current (A)		1-Phase Maximum Current (A)		Voltage Range (V_DC)	Current Range (A_DC)
				rms	peak	rms	peak		
CA06-450HF	6	0-450	0.001-500	30	90	90	270	±636	±105
CA7.5-450HF	7.5	0-450	0.001-500	30	90	90	270	±636	±90
CA09-450HF	9	0-450	0.001-5000	35	105	105	315	±636	±90
CA12-450HF	12	0-450	0.001-5000	35	105	105	315	±636	±105
CA15-450HF	15	0-450	0.001-5000	35	105	105	315	±636	±105
CA20-450HF	20	0-450	0.001-5000	35	105	105	315	±636	±105

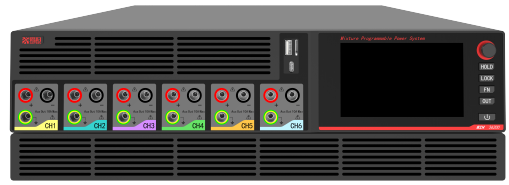
Specification		
	CA series	CA HF series
Output Type	AC,DC,AC+DC,DC+AC	
Working Mode	Regenerative,source & load integrated	
Number of phases of output	Single-phase, three-phase,three phases independent	
AC Input		
Voltage, Phases	304Vac to 480Vac / 380V±20%, 3ph+PE	
Frequency	47Hz to 63Hz	
Peak Current	<1.5 * Rated Current	
Power Factor	0.99	
Efficiency	>91%	
AC Voltage Output		
Voltage Range	L-N/0-450V@0.001-200Hz	L-N/0-450V@0.001-200HzL-N/0-300V@200-1600Hz L-N/0-250V@1600-2000HzL-N/0-100V@2000-5000Hz
Resolution	0.01V	
Accuracy	±(0.01%+0.05% F.S.)	±(0.01%+0.05% F.S.)@0.001-400Hz ±(0.1%+0.1% F.S.)@400-3000Hz ±(0.3%+0.3% F.S.)@43000-5000Hz
Waveform Type	Sine, triangle wave, impulse wave, clipping wave, half wave, multi-wave, 30 groups of DST, user defined	
DC Component	＜20mV	
Load Regulation	±0.05% F.S.	
Line Regulation	±0.01% F.S. @10%	
Voltage Slew Rate	AC>3.0V/μs	
Voltage Distortion	<0.3%@50Hz/60Hz <1%@0.001Hz-200Hz	＜1%@60-400Hz ＜1.5%@400-1600Hz ＜2%@1600-5000Hz
Compenstion	Adaptive	
DC Voltage Output		
Accuracy	±(0.01%+0.05% F.S.)	
Resolution	0.01V	
Load Regulation	±0.05% F.S.	
Line Regulation	±0.01% F.S. @10%	
Voltage Slew Rate	DC>3.0V/μs	

Specification		
	CA series	CA HF series
Frequency Output		
Accuracy	±0.01%	
Resolution	0.001Hz	
Range	0.001 - 200Hz	
Phase Angle Control		
Accuracy	±0.1°@0.001-200Hz	
Resolution	±0.1°	
Phase Angle Range	0 - 359.9°	
Phase Control	Single-phase, Three-phase, Three-phase independent	
Harmonin Injection		
Range	up to 100th order @ 40-70Hz fundamental frequency;	
Content	40%	
Magnitude Error	±5%@ set value or 0.1% of the fundamental frequency;	
Current		
Accuracy	±(0.1%+0.1% F.S.)	
Resolution	0.01A	
Internal Resistance Mode		
R Range (Ω) : 0-10	L Range (mH) : 0-2	
Resolution : 0.001	Accuracy : ±0.01%+0.02% F.S.	
RLC Load		
Resistance Range (Ω) : 0.001 to 1000	Resistance Resolution (Ω)) : 0.001	Resistance Accuracy : ±0.1% F.S.
Inductors Range (mH) : 0.1 to 5000	Inductors Resolution (mH) : 0.001	Inductors Accuracy : ±0.1% F.S.
Capacitance Range (mF) : 1 to 5000	Capacitance Resolution (mF) : 0.1	Capacitance Accuracy : ±0.1% F.S.
Crest Factor Range : 1.000 to 5.000	Crest Resolution : 0.001	
Power Factor Range : -1.000 to 1.000	Power Resolution : 0.001	
Transient Functions		
Programming	List, Wave, Step, Pulse, Advanced, Harmonics, Inter-harmonics, DST	
Time of Step Resolution	100μs	
Number of Programmed Waveforms	100	
Anolog Programming	RMS, Amplitude, Instantaneous value(Amplifier mode)	
Environmental Conditions		
Cooling	Air cooling	
Temperature	Operating : 0 to 50°C Storage : -20 to 70°C	
Humidity	<80%, non-condensing	
Dimension & Weight		
Dimension (mm)	435(W) x 132(H) x 781(D)	
Weight	35kg	

Helion series

OVERVIEW

The Helion Series Hybrid Programmable Power Supply System is an innovative power supply solution, specifically designed to meet the high-accuracy and multifunctional power requirements of laboratories, R&D centers, and industrial automation testing. The system features a modular design, enabling users to flexibly configure AC and DC modules according to actual needs, providing efficient and adaptable power supply solutions. It is widely used in the development and application of micro-inverters, micro-storage, portable energy storage, household appliances, industrial electronics, and related products.



ADVANTAGES

Adaptive modular design: Supports plug-and-play quick installation, flexible replacement of AC/DC modules, and automatic system recognition of power module types.

Hybrid multi-channel: Six-channel hybrid interface within a 3U enclosure, offering flexible configuration. Supports common topologies including AC/AC, AC/DC, DC/AC, and DC/DC testing.

High accuracy output: Employs advanced digital control technology to deliver high accuracy, low ripple voltage and current output, ensuring precise test results.

Comprehensive communication interfaces: Built-in USB and LAN, with optional RS232/RS485 interfaces, supporting SCPI/MODBUS command sets for seamless integration into automated test systems, enabling remote control and monitoring.

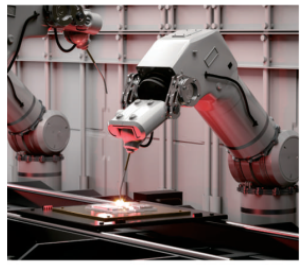
Bidirectional energy flow: The AC and DC modules support energy feedback functionality.

Web-based control: allowing power supply management and monitoring through a standard browser.

Convenient front panel output: All six front panel channels support banana plug connections up to 10A.

Household Appliances

Portable Energy Storage



Industrial Electronics

Mainframe System

System Configuration & Model Selection

3U Rack					
Product Model	Rated Output Power (kW)	Input Voltage Range (V)	Number of Channels	Input Type	Appearance
H-C6-6.6	6.6	L1-N: (200-240)Vac L1-L2: (200-440)Vac	6	Two-wire	3U Standard Width
H-C6-9.9	9.9	200-480V	6	Three-phase	

AC Module

Model Selection Specification Table:

Product Model	Power (kVA)	Maximum Voltage (V_rms)	Frequency Range (Hz)	Maximum Current (A_rms)	Maximum Voltage (V_DC)	Maximum Current (A_DC)
A1-3.0-450-16	3	450	DC,0.001–5000	16	±630	±16
A1-1.6-450-16	1.6	450	DC,0.001–5000	16	±630	±16

DC Module

Model Selection Specification Table:

Product Model	Power Rating (kW)	Voltage (V)	Current Rating (A)	Maximum Efficiency	Type
D1-3.0-160-50	±3.00	0-160	±50	92%	Bidirectional DC Module
D1-1.6-160-30	±1.65	0-160	±30	90%	Bidirectional DC Module
D1-0.8-160-15	±0.85	0-160	±15	90%	Bidirectional DC Module
D1-3.0-100-60	±3.00	0-100	±60	92%	Bidirectional DC Module
D1-1.6-100-45	±1.65	0-100	±45	90%	Bidirectional DC Module
D1-0.8-100-30	±0.85	0-100	±30	90%	Bidirectional DC Module
D2-3.0-160-50	3.00	0-160	50	92%	PV Simulation Module
D2-1.6-160-30	1.65	0-160	30	90%	PV Simulation Module
D2-0.8-160-15	0.85	0-160	15	90%	PV Simulation Module
D2-3.0-100-60	3.00	0-100	60	92%	PV Simulation Module
D2-1.6-100-45	1.65	0-100	45	90%	PV Simulation Module
D2-0.8-100-30	0.85	0-100	30	90%	PV Simulation Module

Nexus series



OVERVIEW

The Nexus series is ActionPower's third-generation bidirectional power supply for high-power AC/DC testing. It simulates grid, battery, and PV panel characteristics with high precision and dynamic response.

ESS Testing

PV Inverter Testing

Wind Turbine Testing

AC/DC Power Supply Testing Power HiL EV Charger & EVSE Testing

ADVANTAGES

Multiple Output Modes: CC, CV, CP, CR

Soft Start: Smooth output ramp-up

Adjustable Slew Rate: Configurable rise/fall speed of voltage, current, and power

Parallel Operation: Supports vertical and horizontal expansion via fiber-optic linking

Grid-Friendly: PF up to 0.99, THDi < 3%, minimal grid interference

Wide Output Range: Voltage exceeds rated values with constant power at high output

Internal Resistance Setting: Programmable for specialized test scenarios

Multiple Protections: OC, OV, OP, OT protection

DC Series

AC Series

Grid Disturbance Simulation: Emulates voltage, frequency, and phase fluctuations

Input/Output Soft Start: Adjustable voltage ramp-up to reduce inrush impact

Load Simulation: 12 built-in RLC models with tunable parameters

1ms Interruption Test: Simulates brief domestic/international grid outages

Grid-Friendly: PF up to 0.99, THDi ＜3%, minimal grid interference

Harmonic & Interharmonic Testing: Superimposes 2–50th harmonics on 50/60Hz base; 27 built-in harmonic waveforms

Flexible Programming: WAVE, STEP, LIST, PULSE, ADVANCED modes; up to 100 steps, 999 cycles

LVRT/HVRT Testing: Adjustable trigger phase angle for voltage ride-through scenarios

	2000V	1200V	700V
	100kW-200kW 200A-400A	100kW-200kW 300A-600A	100kW-200kW 600A-1200A
	300kW-500kW 600A-1000A	300kW-500kW 900A-1500A	300kW-500kW 1800A-3000A
	600kW-750kW 1200A-1500A	600kW-700kW 1800A-2100A	600kW-750kW 3600A-4500A

	900V	470V
	90kVA-180kVA 100A-200A	45kVA-225kVA 100A-500A
	270kVA-450kVA 300A-500A	270kVA-450kVA 600A-1000A
	540kVA-630kVA 600A-700A	540kVA-675kVA 1200A-1500A

Nexus DC series

The Nexus bidirectional programmable DC power supply delivers 100kW to 750 kW per unit with multiple voltage levels. It simulates various battery and PV characteristics to support a wide range of testing scenarios.

Model	Power [kW]	Output Voltage [V]	Output Current [A]	Size (WDH) [mm]	Weight [kg]
ND100-700	±100	20-2000	±200	800x1000x1950	600
ND200-2K0	±200	20-2000	±400	800x1000x1950	800
ND300-1K2	±300	20-2000	±600	1400x1000x1950	1,310
ND400-2K0	±400	20-2000	±800	1400x1000x1950	1,510
ND500-2K0	±500	20-2000	±1000	1400x1000x1950	1,710
ND600-2K0	±600	20-2000	±1200	2000x1000x1950	2,220
ND700-2K0	±700	20-2000	±1400	2000x1000x1950	2,420
ND750-2K0	±750	20-2000	±1500	2000x1000x1950	2,520
ND100-1K2	±100	12-1200	±300	800x1000x1950	600
ND200-1K2	±200	12-1200	±600	800x1000x1950	800
ND300-1K2	±300	12-1200	±900	1400x1000x1950	1,310
ND400-1K2	±400	12-1200	±1200	1400x1000x1950	1,510
ND500-1K2	±500	12-1200	±1500	1400x1000x1950	1,710
ND600-1K2	±600	12-1200	±1800	2000x1000x1950	2,220
ND700-1K2	±700	12-1200	±2100	2000x1000x1950	2,420
ND100-2K0	±100	10-700	±600	800x1000x1950	600
ND200-700	±200	10-700	±1200	800x1000x1950	800
ND300-700	±300	10-700	±1800	1400x1000x1950	1,310
ND400-700	±400	10-700	±2400	1400x1000x1950	1,510
ND500-700	±500	10-700	±3000	1400x1000x1950	1,710
ND600-700	±600	10-700	±3600	2000x1000x1950	2,220
ND700-700	±700	10-700	±4200	2000x1000x1950	2,420
ND750-700	±750	10-700	±4500	2000x1000x1950	2,520

Nexus DC series	Specification
AC Input	
Voltage, Phases	380V±15%, 3ph+PE
Frequency	47Hz to 63Hz
Power Factor	⩾0.96
Efficiency	>94.2%
DC Voltage Output	
Setting Resolution	±0.01.V
Accuracy	0.1V% F.S
Ripple	1.5Vrms
Voltage slew rate	1000V/ms
Voltage rise time	≤2ms
DC Output Current	
Setting resolution	0.01A
Accuracy	±0.1%F.S.
Rise time	≤1ms (10%~90% rated current)
Switching time	≤2ms (-90% to +90% rated current)
DC Output Power	
Set resolution	0.001kW
Accuracy	±(0.1% Setting +0.1%F.S.)
Battery Simulation	
Battery type	Simulate various battery types including lithium manganese oxide, lithium cobalt oxide, lithium iron phosphate, nickel-metal hydride, ternary lithium, lithium titanate, and lead-acid batteries. Customizable battery types with open 1-stage, 2-stage, and 3-stage RC battery models.
Parameter	Series Count, Parallel Count, Initial SOC (State of Charge), Initial Temperature, Internal Resistance, Cell Capacity, and other parameters
Data input	Import of CSV user-defined model is supported
Update rate	200μs
I-V Curve	
Open-Circuit V oltage Setting Range	Full Voltage Range Adjustable
Short-Circuit Current Setting Range	0A~Ie
Simulated Fill Factor Range	0.3 - 0.95
Photovoltaic Panel Type Selection	c-si, Thin-film, Customization
I-V Curve Update Rate	Typical Time: 1 ms, with Online Curve Switching Function
I-V Curve Standard	Sandia, EN50530, Simple
Resistor Parameters	
Range	0.5-3000 Ω
Accuracy	±(0.1%Setting+0.2% F.S.)
Resolution	0.01 Ω
Programmable	
Mode	List, Wave, Step, Advanced
Step	200
Cycle Range	0~9,999,999
Time Range	0ms-999s
Minimum Programming Time Step	100 μs
Edit Mode	Add, Delete, Import, Export
Running Mode	Load, End, Trigger
Others	
Protection	Input under-voltage/over-voltage/over-frequency/phase loss protection, etc.
Interface	USB, LAN, RS485, CAN
Multi-function Interface	“Anyport”, see the user manual for more details
Control and Display	Local touchscreen control, remote host control; display voltage, current, frequency, power.
Cooling Mode	Air cooling
Noise	≤70dB
Operation Temperature	-10˚C~50˚C
Humidity	10% ~ 90% RAH
Altitude	≤2000m

Nexus AC series

The Nexus programmable source/sink power supply offers 45 kVA to 675 kVA per unit, with phase voltage up to 900 V. It integrates both AC source and load functions to support on-grid and off-grid testing.

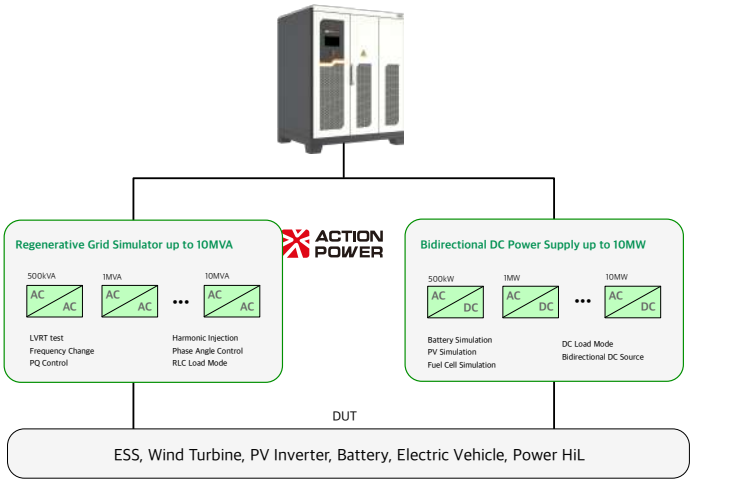
Model	Power [kVA]	Voltage [V]	Frequency [Hz]	Output Current [A]	DC Output Voltage [V_DC]	DC Output Current [A_DC]	Size (WDH) [mm]	Weight [kg]
NA090-470	90	470	DC,0.001-200.0	200	±650	±600	800x1000x1950	600
NA180-470	180	470	DC,0.001-200.0	400	±650	±1200	800x1000x1950	800
NA225-470	225	470	DC,0.001-200.0	500	±650	±1500	800x1000x1950	900
NA270-470	270	470	DC,0.001-200.0	600	±650	±1800	1400x1000x1950	1,310
NA360-470	360	470	DC,0.001-200.0	800	±650	±2400	1400x1000x1950	1,510
NA450-470	450	470	DC,0.001-200.0	1000	±650	±3000	1400x1000x1950	1,710
NA540-470	540	470	DC,0.001-200.0	1200	±650	±3600	2000x1000x1950	2,220
NA630-470	630	470	DC,0.001-200.0	1400	±650	±4200	2000x1000x1950	2,420
NA675-470	675	470	DC,0.001-200.0	1500	±650	±4500	2000x1000x1950	2,520
NA090-900	90	900	DC,0.001-200.0	100	±1250	±300	800x1000x1950	600
NA180-900	180	900	DC,0.001-200.0	200	±1250	±600	800x1000x1950	800
NA270-900	270	900	DC,0.001-200.0	300	±1250	±900	1400x1000x1950	1,310
NA360-900	360	900	DC,0.001-200.0	400	±1250	±1200	1400x1000x1950	1,510
NA450-900	450	900	DC,0.001-200.0	500	±1250	±1500	1400x1000x1950	1,710
NA540-900	540	900	DC,0.001-200.0	600	±1250	±1800	2000x1000x1950	2,220
NA630-900	630	900	DC,0.001-200.0	700	±1250	±2100	2000x1000x1950	2,420

Nexus AC series	Specification	
AC Input		
Voltage, Phases	380V±15%, 3ph+PE	
Frequency	47Hz to 63Hz	
Harmonic Current	<3%	
Power Factor	⩾0.96	
Efficiency	>91%	
AC Voltage Output		
Accuracy	±0.1% F.S.	
Resolution	0.01V	
Load Regulation	±0.05% F.S.	
Line Regulation	±0.05% F.S.@10%variable	
Voltage Slew Rate	AC>1.0V/μs	
Voltage Distortion	<0.5%@50Hz/60Hz	<1%@0.001Hz-200Hz Voltage
Compenstion	Adaptive	
DC Voltage Output		
Accuracy	±0.1%F.S.	
Resolution	0.01V	
Load Regulation	±0.05% F.S.	
Line Regulation	±0.01% F.S. @10% variable	
Voltage Slew Rate	DC>1.0V/μs	
Frequency Output		
Accuracy	±0.01%	
Resolution	0.001Hz	
Range	DC, 0.001 - 200Hz	
Phase Angle Control		
Accuracy	±0.1°@15-70Hz, ±0.5°@70-200Hz	
Resolution	±0.1°	
Phase Angle Range	Programmable range 0 - 359.9°	
Phase Control	A=0°, B=240°, C=120°(Default)	
Harmonin Injection		
Order	up to 100th@40-70Hz; 25th@70-200Hz	
Content	40%	
Phase Angle Range	0 - 359.9°	
Current		
Accuracy	±(0.1%+0.1% F.S.)@15-200Hz	
Resolution	0.01A	
Internal Resistance Mode		
R Range (Ω) : 0-10	L Range (mH) : 0-2	
Resolution : 0.001	Accuracy : ±0.01%+0.02% F.S.	
RLC Load		
Resistance Range (Ω) : 0.001 to 1000	Resistance Resolution (Ω)) : 0.001	Resistance Accuracy : ±0.1% F.S.
Inductors Range (mH) : 0.1 to 5000	Inductors Resolution (mH) : 0.001	Inductors Accuracy : ±0.1% F.S.
Capacitance Range (mF) : 1 to 5000	Capacitance Resolution (mF) : 0.1	Capacitance Accuracy : ±0.1% F.S.
Crest Factor Range : 1.000 to 5.000	Crest Resolution : 0.001	
Power Factor Range : -1.000 to 1.000	Power Resolution : 0.001	
Transient Functions		
Programming	List, Wave, Step, Pulse, Advanced, Harmonics, Inter-harmonics	
Time of Step Resolution	100μs	
Number of Programmed Waveforms	100	
Anolog Programming	RMS, Amplitude, Instantaneous value(Amplifier mode)	
Environmental Conditions		
Cooling	Air cooling	
Temperature	Operating : -10°C to 50°C	Storage : -20 to 70°C
Humidity	≤80%, non-condensing	

Titan DC series

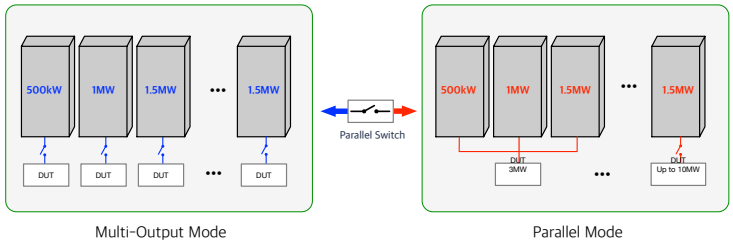
OVERVIEW

The Titan DC Series battery simulator is a power supply featuring high accuracy, high dynamics, high real-time performance and comprehensive battery characteristic simulation.



ADVANTAGES

- High Dynamic : 2ms (10%~90%)
- High Voltage Output : 12-2000Vdc
- Multi-output Mode with Parallel Switch
- Support Zero Volt Input
- Digital Matrix Parallel System : up to 10MW
- Automatic Sourcing and Loading
- Internal Resistance Function
- Battery Simulation



Multi-Output Mode

Parallel Mode

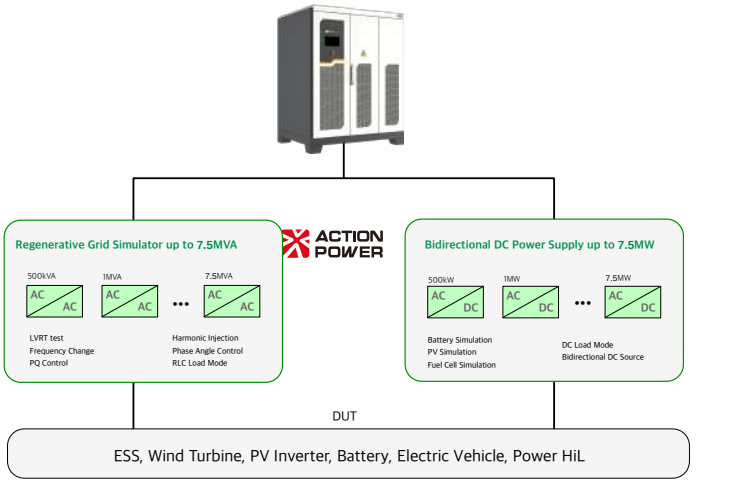
Model	Power [kW]	Output Voltage [V]	Output Current [A]	Size (WHD) [mm]	Weight [kg]
TD300-1K2-10	±300	12-1200	±1000	2010x1955x1200	2,640
TD400-1K2-10	±400	12-1200	±1000	2010x1955x1200	2,850
TD500-1K2-12	±500	12-1200	±1250	2010x1955x1200	3,020
TD600-1K2-12	±600	12-1200	±1250	2410x1955x1200	3,500
TD300-2K0-04	±300	20-2000	±400	1610x1955x1200	1,900
TD400-2K0-06	±400	20-2000	±600	1610x1955x1200	2,430
TD500-2K0-07	±500	20-2000	±700	2010x1955x1200	2,670
TD600-2K0-08	±600	20-2000	±800	3410x1955x1200	3,500
TD750-2K0-10	±750	20-2000	±1000	3410x1955x1200	4,390
TD1K0-2K0-14	±1000	20-2000	±1400	3410x1955x1200	4,940

Titans DC Series	Specification
AC Input	
Voltage, Phases	380V±15%, 3ph+PE
Frequency	47Hz to 63Hz
Power Factor	0.99 @ full load
Efficiency	Model of 300kW and above : >94%, others: >90%
Harmonic Current	≤3%
DC Output Voltage	
Accuracy	±0.1% F.S.
Resolution	0.01V
Ripple(RMS)	0.1% F.S. (resistive load)
Slew Rate	200V/ms
DC Output Current	
Accuracy	±0.1% F.S.
Resolution	0.01A
Ripple(RMS)	0.1% F.S. (resistive load)
Slew Rate	500A/ms
Rise Time	≤2ms (10%~90% rated current)
Switching Time	≤4ms (switching from -09% to +90%)
Peak Time	60s (1200V type)
Measurement	
Voltage Accuracy	±0.1% F.S.
Voltage Resolution	0.001V
Current Accuracy	±0.1% F.S.
Current Resolution	0.001A
Power Accuracy	±0.2% F.S.
Power Resolution	1W
Protective Functions	
OVP	Over-voltage protection, adjustable 0 - 110% UNominal (±1% F.S.)
OCP	Over-current protection, Adjustable 0V- ±110% INominal (±1% F.S.)
OPP	Over-power protection, range 0V ~ ±110% PNominal (±1% F.S.)
OTP	Overt-temperature protection
Battery Simulation	
Battery Type	Different battery types such as lithium manganate, lithium cobaltate, lithium iron phosphate, nickel-hydrogen, ternary lithium, lithium titanate, and lead-acid batteries can be simulated; User-defined battery types and open first, second and third-order RC battery models are supported
Parameter	Number of batteries in series connection, number of batteries in parallel connection, initial SOC, initial temperature, internal resistance, cell capacity and other parameters
Interface	Import of CSV user-defined model is supported
Real-time Performance	1ms command refresh rate
Interface	
Ethernet, CAN, RS485, ModBus TCP	
Device Configuration	
Parallel Operation	Up to 10MW
Insulation and Withstanding Voltage	
10MΩ/DC500V；3600VAC(5000VDC)/1min	
Environmental Conditions	
Operating Temperature	-10 to 40°C
Storage Temperature	-20 to 70°C
Relative Humidity	10 to 90% RAH
Altitude	≤2000m without derating, Above 2000m please contact ACTIONPOWER
Cooling method	
Air-cooled	Dry clean air
Option	
Discharging Resistor Cabinet	Under abnormal operating conditions of the system, energy will be safely dissipated through the bleeder resistor cabinet to protect the
DUT Capacitance Compensation	Voltage drop caused by cable impedance and the voltage ripple of the DUT

Titan DC series CE

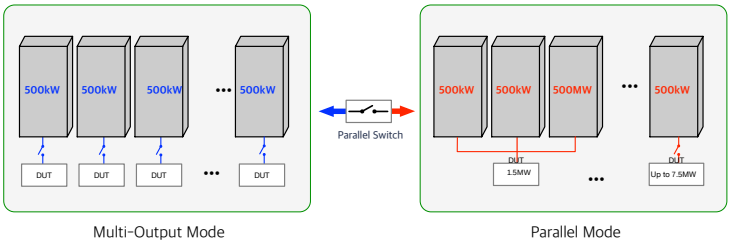
OVERVIEW

The Titan DC Series battery simulator is a power supply featuring high accuracy, high dynamics, high real-time performance and comprehensive battery characteristic simulation.



ADVANTAGES

- High Dynamic : 2ms (10%~90%)
- High Voltage Output : 20-1500Vdc
- Multi-output Mode with Parallel Switch
- Support Zero Volt Input
- Digital Matrix Parallel System : up to 7.5MW
- Automatic Sourcing and Loading
- Internal Resistance Function
- Battery Simulation



Multi-Output Mode　　Parallel Mode

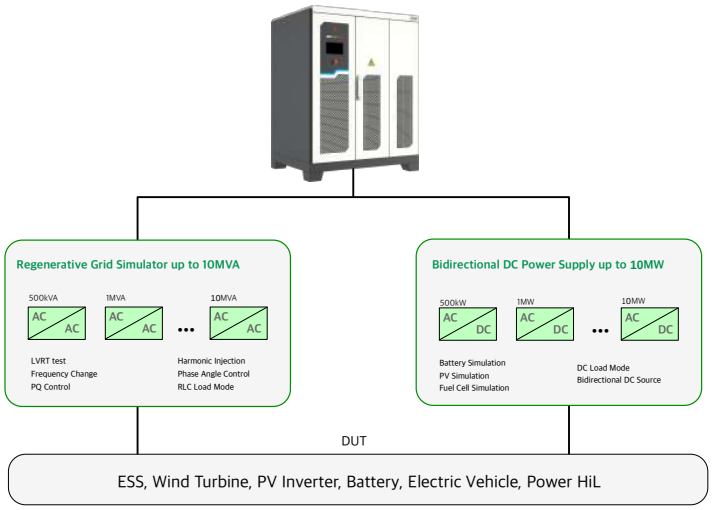
Model	Power [kW]	Output Voltage [V]	Output Current [A]	Size (WHD) [mm]	Weight [kg]
TD300-1K5-04	±300	12-1500	±400	2010x1955x1200	2,850
TD400-1K5-06	±400	12-1500	±600	2010x1955x1200	2,850
TD500-1K5-07	±500	12-1500	±700	2010x1955x1200	2,850
TD600-1K5-08	±600	12-1500	±800	3410x1955x1200	5,080
TD750-1K5-10	±750	20-1500	±1000	3410x1955x1200	5,080

Titan DC Series	Specification
AC Input	
Voltage, Phases	360~440VAC, 3ph+PE
Frequency	47Hz to 63Hz
Power Factor	0.99 @ full load
Efficiency	Model of 300kW and above : >94%, others: >90%
Harmonic Current	≤3%
DC Output Voltage	
Accuracy	±0.1% F.S.
Resolution	0.01V
Ripple(RMS)	0.1% F.S. (resistive load)
Slew Rate	300V/ms
DC Output Current	
Accuracy	±0.1% F.S.
Resolution	0.01A
Ripple(RMS)	0.1% F.S. (resistive load)
Slew Rate	500A/ms
Rise Time	≤2ms (10%~90% rated current)
Switching Time	≤4ms (switching from -09% to +90%)
Peak Time	60s (1200V type)
Measurement	
Voltage Accuracy	±0.1% F.S.
Voltage Resolution	0.001V
Current Accuracy	±0.1% F.S.
Current Resolution	0.001A
Power Accuracy	±0.2% F.S.
Power Resolution	1W
Protective Functions	
OTP	Overt-temperature protection
Battery Simulation	
Battery Type	Different battery types such as lithium manganate, lithium cobaltate, lithium iron phosphate, nickel-hydrogen, ternary lithium, lithium titanate, and lead-acid batteries can be simulated; User-defined battery types and open first, second and third-order RC battery models are supported
Parameter	Number of batteries in series connection, number of batteries in parallel connection, initial SOC, initial temperature, internal resistance, cell capacity
Interface	Import and export of CSV user-defined model is supported
Real-time Performance	1ms command refresh rate
Interface	
Ethernet, CAN, RS485	
Device Configuration	
Parallel Operation	Multiple units of the same model can be installed in parallel up to 7.5MW
Insulation and Withstanding Voltage	
20MΩ/DC500V；5000VDC/1min	
Environmental Conditions	
Operating Temperature	-10 to 40°C
Relative Humidity	10 to 90% no-condensing
Altitude	≤2000m without derating, Above 2000m please contact ACTIONPOWER
Cooling method	
Air-cooled	Dry clean air
Option	
Discharging Resistor Cabinet	Under abnormal operating conditions of the system, energy will be safely dissipated through the bleeder resistor cabinet to protect the
DUT Capacitance Compensation	Voltage drop caused by cable impedance and the voltage ripple of the DUT

Titan AC series

OVERVIEW

The Titan AC series can be used as a grid simulator for testing devices under variable power conditions. It supports voltage, frequency, and waveform disturbances per grid standards.



ADVANTAGES

- High Dyanamic : 1V/μs
- High Accuracy : 0.1%
- High Voltage Output : 860Vac(L-N)
- Harmonic & Inter-harmonic Function
- Flicker Test : level 1~10
- Digital Matrix Parallel System : up to 10MVA
- Independent Setting of Three Phases
- Three-phase Unbalance Test
- ZVRT, LVRT and HVRT Test
- Grid Simulation


ESS Testing


PV Inverter Testing


Wind Turbine Testing


AC/DC Power Supply Testing


Power HiL


EV Charger & EVSE Testing

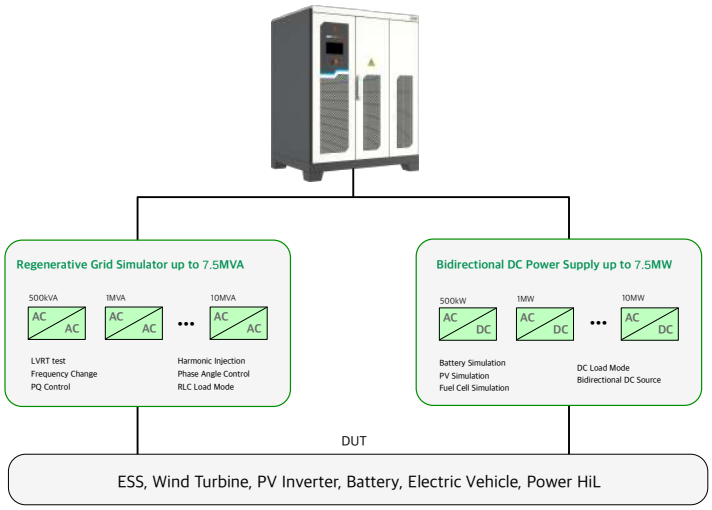
Model	Output Power [kVA]	Voltage Range [V] @ L-N	Frequency Range [Hz]	Max. Current [A] @ 3 phase	Size (WHD) [mm]	Weight [kg]
TA300-450-05	300	0-450	40-70	500	2410x1955x1200	2,630
TA400-450-06	400	0-450	40-70	600	2410x1955x1200	2,920
TA500-450-08	500	0-450	40-70	800	3410x1955x1400	3,860
TA600-450-09	600	0-450	40-70	900	3410x1955x1400	4,410
TA750-450-12	750	0-450	40-70	1200	3410x1955x1400	5,310
TA1K0-450-16	1000	0-450	40-70	1600	6810x1955x1400	7,720
TA300-700-03	300	0-700	40-70	300	2410x1955x1200	2,560
TA400-700-04	400	0-700	40-70	400	2410x1955x1200	2,770
TA500-700-05	500	0-700	40-70	500	2410x1955x1200	2,960
TA600-700-06	600	0-700	40-70	600	3410x1955x1200	3,670
TA750-700-07	750	0-700	40-70	700	3410x1955x1400	5,080
TA1K0-700-10	1000	0-700	40-70	1000	3410x1955x1400	5,810
TA300-860-03	300	0-860	40-70	300	2410x1955x1200	2,560
TA400-860-04	400	0-860	40-70	400	2410x1955x1200	2,770
TA500-860-05	500	0-860	40-70	500	2410x1955x1200	2,960
TA600-860-06	600	0-860	40-70	600	3410x1955x1200	3,670
TA750-860-07	750	0-860	40-70	700	3410x1955x1400	5,080
TA1K0-860-10	1000	0-860	40-70	1000	3410x1955x1400	5,810

Titan AC series	Specification
AC Output Voltage	
Accuracy	±0.1% F.S.
Resolution	0.01V
Load Regulation	±0.05% F.S. @ Linear load
Line Regulation	±0.05% F.S. @10% Voltage
Slew Rate	AC>1.0V/us
Response Time	<1ms (10%-90%Umax)
Voltage Distortion	Less than 0.5% @50Hz/60Hz ≥ 220V for no-load
	Less than 1% @50Hz/60Hz ≥ 220V for linear load
	Less than 1.0% @ other frequency ≥ 220V for no-load
	Less than 1.5% @ other frequency ≥ 220V for linear load
AC Output Current	
Accuracy	±0.2% F.S.
Resolution	0.01A
Output Frequency	
Accuracy	±0.01%
Resolution	0.001Hz
Range	40-70Hz
Phase Angle Control	
Accuracy	±0.3°
Resolution	±0.1°
Phase Angle Range	0 - 359.9°
Phase Control	Three-phase independent
Voltage Ride Through	
Mode	ZVRT / LVRT / HVRT
Setting Parameter	voltage, frequency, phase, rise time, hold time, trigger phase angle and pulse output
Harmonic Injection	
Order	50th@50Hz/60Hz
Content	Max 40% for 2-10 single harmonics, less than 40% for 2-10 total harmonics
	Max 20% for 10-20 single harmonics, less than 20% for 10-20 total harmonics
	Max 10% for 21-30 single harmonics, and no more than 10% for total harmonics
	Max 5% for 31-50 single harmonics, and no more than 5% for total harmonics
	It can simultaneously synthesis 49 harmonics
Amplitude Error	±5% harmonic of set value
Preview Function	Harmonic synthesis waveform can be previewed
Editing Mode	import, export, read, storage
Inter Harmonic	
Frequency Range	1Hz-3,000Hz, content <10%
Programming Steps	100 steps
Programming Parameters	content, start frequency, end frequency, step length, execution time, interval time, cycle times and sequence
Editing Mode	add, delete, import, export, store, read
Flicker	
Flicker Level	1.0-10.0, totally 10 levels in total, and one-key calling
Adjustment Step Length	1
Accuracy	±0.2
Preview Function	Preview of flicker trend chart, pst can be visualized
Resolution	0.01V
Three-phase Unbalance	
Adjustment Mode	three-phase voltage, single phase; unbalance factor
Unbalance Factor Range (%)	1~100
Unbalance Factor Step Length (%)	1
Accuracy (%)	±0.5%
Preview Function	three-phase unbalance trend chart can be previewed
Measurement	
Voltage Accuracy	±0.1% F.S.
Frequency Accuracy	±0.01%
Current Accuracy	±0.2% F.S.
Active Power Accuracy	±0.3% F.S.
Apparent Power Accuracy	±0.3% F.S.

Titan AC series CE

OVERVIEW

The Titan AC series can be used as a grid simulator for testing devices under variable power conditions. It supports voltage, frequency, and waveform disturbances per grid standards.



ADVANTAGES

- High Dyanamic : 1V/μs
- High Accuracy : 0.1%
- High Voltage Output : 860Vac(L-N)
- Harmonic & Inter-harmonic Function
- Flicker Test : level 1~10
- Digital Matrix Parallel System : up to 7.5MVA
- Independent Setting of Three Phases
- Three-phase Unbalance Test
- ZVRT, LVRT and HVRT Test
- Grid Simulation


ESS Testing


PV Inverter Testing


Wind Turbine Testing


AC/DC Power Supply Testing


Power HiL


EV Charger & EVSE Testing

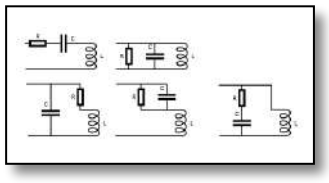
Model	Output Power [kVA]	Voltage Range [V] @ L-N	Frequency Range [Hz]	Max. Current [A] @ 3 phase	Size (WHD) [mm]	Weight [kg]
TA300-450-05	300	0-576	40-70	300	2410x1955x1200	2,960
TA400-450-06	400	0-576	40-70	400	2410x1955x1200	2,960
TA500-450-08	500	0-576	40-70	500	2410x1955x1200	2,960
TA600-450-09	600	0-576	40-70	600	3410x1955x1400	5,300
TA750-450-12	750	0-576	40-70	750	3410x1955x1400	5,300

Titan AC series	Specification
AC Output Voltage	
Accuracy	±0.1% F.S.
Resolution	0.01V
Load Regulation	±0.1% F.S. @ Linear load
Line Regulation	±0.05% F.S. @10% Voltage
Slew Rate	AC>1.0V/us
Response Time	<1ms (10%-90%Umax)
Voltage Distortion	Less than 0.5% @50Hz/60Hz ≥ 220V for no-load
	Less than 1% @50Hz/60Hz ≥ 220V for linear load
	Less than 1.0% @ other frequency ≥ 220V for no-load
	Less than 1.5% @ other frequency ≥ 220V for linear load
AC Output Current	
Accuracy	±0.2% F.S.
Resolution	0.1A
Output Frequency	
Accuracy	±0.005Hz
Resolution	0.001Hz
Range	40-70Hz
Phase Angle Control	
Accuracy	±0.3°
Resolution	±0.1°
Phase Angle Range	0 - 359.9°
Phase Control	Three-phase independent
Voltage Ride Through	
Mode	ZVRT / LVRT / HVRT
Setting Parameter	voltage, frequency, phase, rise time, hold time, trigger phase angle and pulse output
Harmonic Injection	
Order	50th@50Hz/60Hz
Content	Max 40% for 2-10 single harmonics, less than 40% for 2-10 total harmonics
	Max 20% for 10-20 single harmonics, less than 20% for 10-20 total harmonics
	Max 10% for 21-30 single harmonics, and no more than 10% for total harmonics
	Max 5% for 31-50 single harmonics, and no more than 5% for total harmonics
	It can simultaneously synthesis 49 harmonics
Amplitude Error	±1% for no-load; ±3% for linear load
Preview Function	Harmonic synthesis waveform can be previewed
Editing Mode	import, export, read, storage
Inter Harmonic	
Frequency Range	1Hz-3,000Hz, content <10%
Programming Steps	100 steps
Programming Parameters	content, start frequency, end frequency, step length, execution time, interval time, cycle times and sequence
Editing Mode	add, delete, import, export, store, read
Flicker	
Flicker Level	1.0-10.0, totally 10 levels in total, and one-key calling
Adjustment Step Length	1
Accuracy	±0.2
Preview Function	Preview of flicker trend chart, pst can be visualized
Resolution	0.01V
Three-phase Unbalance	
Adjustment Mode	three-phase voltage, single phase; unbalance factor
Unbalance Factor Range (%)	1~100
Unbalance Factor Step Length (%)	0.01
Accuracy (%)	±0.2%
Preview Function	three-phase unbalance trend chart can be previewed
Measurement	
Voltage Accuracy	±0.1% F.S.
Frequency Accuracy	±0.01%
Current Accuracy	±0.2% F.S.
Active Power Accuracy	±0.3% F.S.
Apparent Power Accuracy	±0.3% F.S.

Titan AC series-Load

OVERVIEW

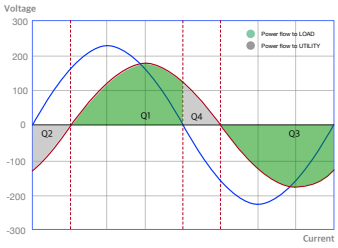
The Titan programmable source/sink power supply is a regenerative AC source and sink integrated unit, offering both grid simulation and AC load simulation functions.

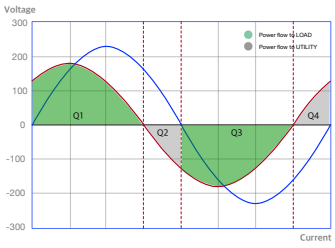


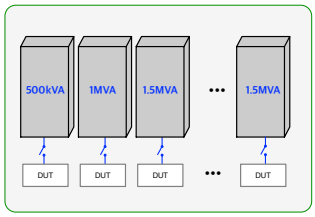
RLC Load Network Topology

ADVANTAGES

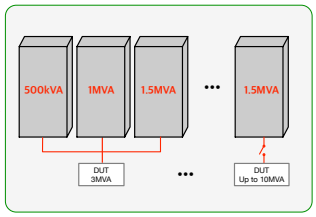
- Current Dynamic <1ms
- High Accuracy : 0.1%
- High Voltage Output : 860Vac(L-N)
- Linear & Nonlinear Load Simulation
- Flicker Test : level 1~10
- Digital Matrix Parallel System : up to 10MVA
- Independent Setting of Three Phases
- Three-phase Unbalance Test
- ZVRT, LVRT and HVRT Test
- Grid Simulation







Multi-Output Mode



Parallel Mode

Model	Output Power [kVA]	Voltage Range [V] @ L-N	Frequency Range [Hz]	Max. Current [A] @ 3 phase	Size (WHD) [mm]	Weight [kg]
TA300-450-05L	300	0-450	40-70	500	2910x1955x1200	2,930
TA400-450-06L	400	0-450	40-70	600	2910x1955x1200	3,220
TA500-450-08L	500	0-450	40-70	800	4410x1955x1400	4,360
TA600-450-09L	600	0-450	40-70	900	4410x1955x1400	4,910
TA750-450-12L	750	0-450	40-70	1200	4410x1955x1400	6,160
TA1K0-450-16L	1000	0-450	40-70	1600	8810x1955x1400	8,720
TA300-700-03L	300	0-700	40-70	300	2910x1955x1200	2,860
TA400-700-04L	400	0-700	40-70	400	2910x1955x1200	3,040
TA500-700-05L	500	0-700	40-70	500	2910x1955x1200	3,260
TA600-700-06L	600	0-700	40-70	600	4410x1955x1200	4,170
TA750-700-07L	750	0-700	40-70	700	4410x1955x1400	5,880
TA1K0-700-10L	1000	0-700	40-70	1000	4410x1955x1400	6,610
TA300-860-03L	300	0-860	40-70	300	2910x1955x1200	2,860
TA400-860-04L	400	0-860	40-70	400	2910x1955x1200	3,040
TA500-860-05L	500	0-860	40-70	500	2910x1955x1200	3,260
TA600-860-06L	600	0-860	40-70	600	4410x1955x1200	4,170
TA750-860-07L	750	0-860	40-70	700	4410x1955x1400	5,880
TA1K0-860-10L	1000	0-860	40-70	1000	4410x1955x1400	6,610

Titan AC series	Specification_Load
Load Mode	
Linear Load	CC: Current, power factor, load type, current slope, output waveform
Nonlinear Load	CP: Apparent power, power factor, load type, power slope, output waveform Current, power, peak factor, current slope, power slope
Zero-voltage Start	Simulate on-load start, switch seamlessly to CC or CP after start, with configurable switching condition
Voltage	
Voltage Distortion Limit	Uthd <10% below 20th
Current	
Resolution	0.01A
Accuracy	±0.2% F.S. @ CC mode
Waveform	sine, square wave, triangular wave, clipping wave, customized waveform
Current Distortion	<2%@50Hz@ full load under rated voltage
Current Slew Rate	10%~90% nominal current > 1A/μs
Response Time	<1ms@10%~90% nominal current
Frequency	
Range	40–70Hz
Accuracy	±0.01Hz
Harmonic Injection	
Order	50th@50Hz/60Hz
Content	Max 40% for 2-10 single harmonics, and no more than 40% for 2-10 total harmonics
	Max 20% for 10-20 single harmonics, and no more than 20% for 10-20 total harmonics
	Max 10% for 21-30 single harmonics, and no more than 10% for total harmonics
	Max 5% for 31-50 single harmonics, and no more than 5% for total harmonics
Power	
Resolution	1VA
Resolution (VA)	±0.5% F.S. @ CP mode
Power Factor	
Power Factor	-1 to 1(resistance inductance, resistance capacity and current direction can be set)
Resolution	0.01
Crest Factor	
Scope	1.414 to 4
Resolution	0.001

* Specification of AC source mode is same with Titan gird simulator.

Key Applications & Clients

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ACTIONPOWER

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