biATLAS-D

Programmable DC Regenerative Power Supply
DC Regenerative Electronic Load

business intelligence

Ideal power supply committed to usability

headspring | Sustainable Energy Solutions

bi business intelligence

'bi' in biATLAS means 'business intelligence'. That is, it includes the meaning of information to help dicision-making in business. In addition 'bi' also means 'bi-directional.'

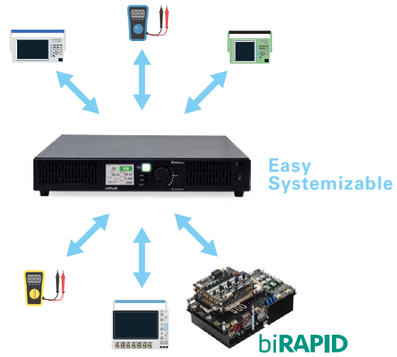
biATLAS

A 'map book' is called as ATLAS. That's originated from the Greek God 'Atlas' drawn on the front page of an early map book and supporting the globe on its shoulder.

Our product 'biATLAS' was born, in addition to as a small and super usable regenerative power supply, with all our heart to strongly support the foundation of various renewable energy appliances such as EVs and Batteries, and to navigate the future of the customer and us as if a map book 'Atlas'.

bi technology

Easy-Systemizable power supply



biATLAS-D series has evolved into 'Easy-Systemizable power supply', equipped with the 'bi technology' to realize DX [Digital Transformation] in R&D and manufacturing fields.

The evolution of biATLAS-D into a Easy-Systemizable power supply enables to realize various system integration, such as 'battery simulation system', 'automatic inspection system', 'Load Machine of electric motor' and 'automatic data gathering for development'.

This evolution can improve the work efficiency in development and inspection and reduce cost of the system installation, although custom ordered development was required to configure these systems so far.

biPYXIS

biPYXIS is the software tool for bi technology application enabling to widely expand the Easy-Systemizable function of biATLAS-D.

☑ Easy automation of time-consuming measurement and control

Select device and command
Simple program only to be arranged
Capable of taking in conditional jump and loop
Substitute measured data for variable to be used also for conditional branch
Acquired data automatically stored in unified database

☑ System matching the fields of R&D, inspection, and production can be easily constructed

Easy automation of repetitive measurements on a small-scale inspection line and for R&D
Capable of the method of use like executing semiautomatically with frequently switching the various types of measurements during product development phase.

biATLAS equipped with biPYXIS can make it easier to configure the system and/or facility including power supplies, since it enables to be connect to external appliances such as measuring instruments.

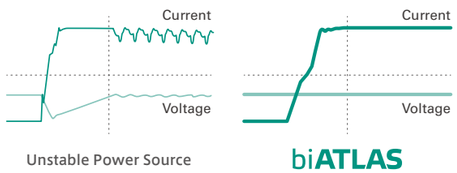
biATLAS series commitment

Stable Power Source

- Equipped with **Real-Time Stabilizer** to control stably even for Load.
- Reproducibility of debug is achieved with Stabilized Power Source

Real Time Stabilizer

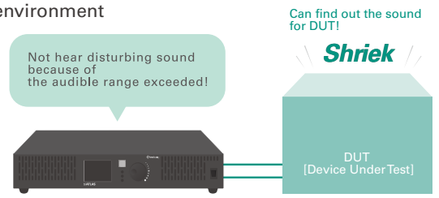
Sample of Current Response Waveform



Unstable Power Source　　biATLAS

Noise reduction in audible sound range

- SiC devices utilization minimizes noise in the audible range.
- Enable to concentrate to the change of the sound for DUT [Device under Test] under the development environment



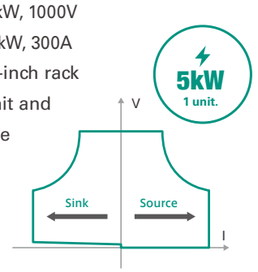
Realized downsizing by SiC utilization

- Utilized next generation power semiconductor SiC realized the down-sizing and weight-saving in the industry-leading level
- Down-sizing enabled to move and to sytem up by less people

Downsizing　High Efficiency, High Speed　Weight-saving　Low Cost

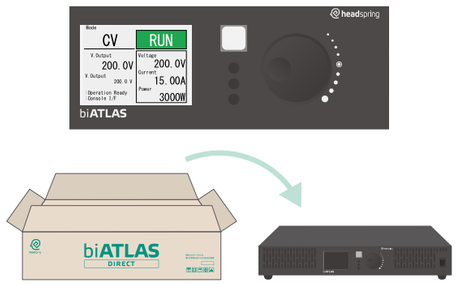
System flexibility by 5kW unit conbination

- High configuration flexibility derives from 5kW unit
  Upto 100kW by 20 units in series and parallel
  eg) D525 in series = 10kW, 1000V
  eg) D80 in parallel = 10kW, 300A
- Small size: 1.5U in 19-inch rack
- Light weight: 18kg/unit and more enables to move by 1 person



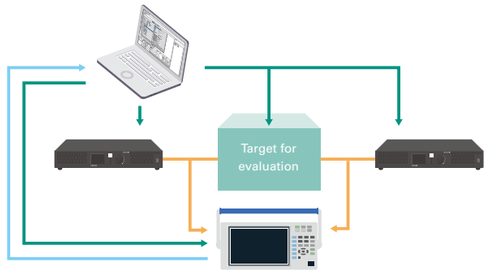
Simple and intuitive operation

- Simple UI and intuitive operation by dialing
- Turnkey solution for power supply



Easy-Systemizable Power Supply

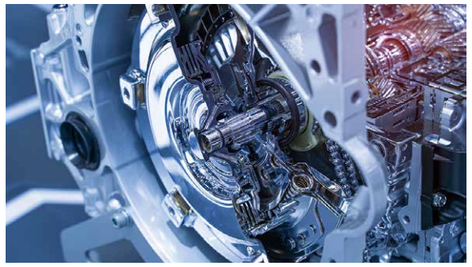
- Although formerly special-ordered development was required to construct these systems, biATLAS enables a system configuration by customizing easily.



Application of DC regenerative power supply

V2H / Grid Connection P5

Usable as a high-capacity battery that enables free output/input of electricity. Can be used for evaluating an energy management system.



Motor Drive Inverter P6

Can be used for evaluating an inverter for motor drive.

Battery Charge and Discharge P7

Can be used as the charge and discharge system for wide range of batteries applying to EV, PV power system etc.

Hybrid Power Conditioning System P8

Usable for evaluating Hybrid PCS, by the battery simulating function of power supply.

V2V/DCDC Converter P9

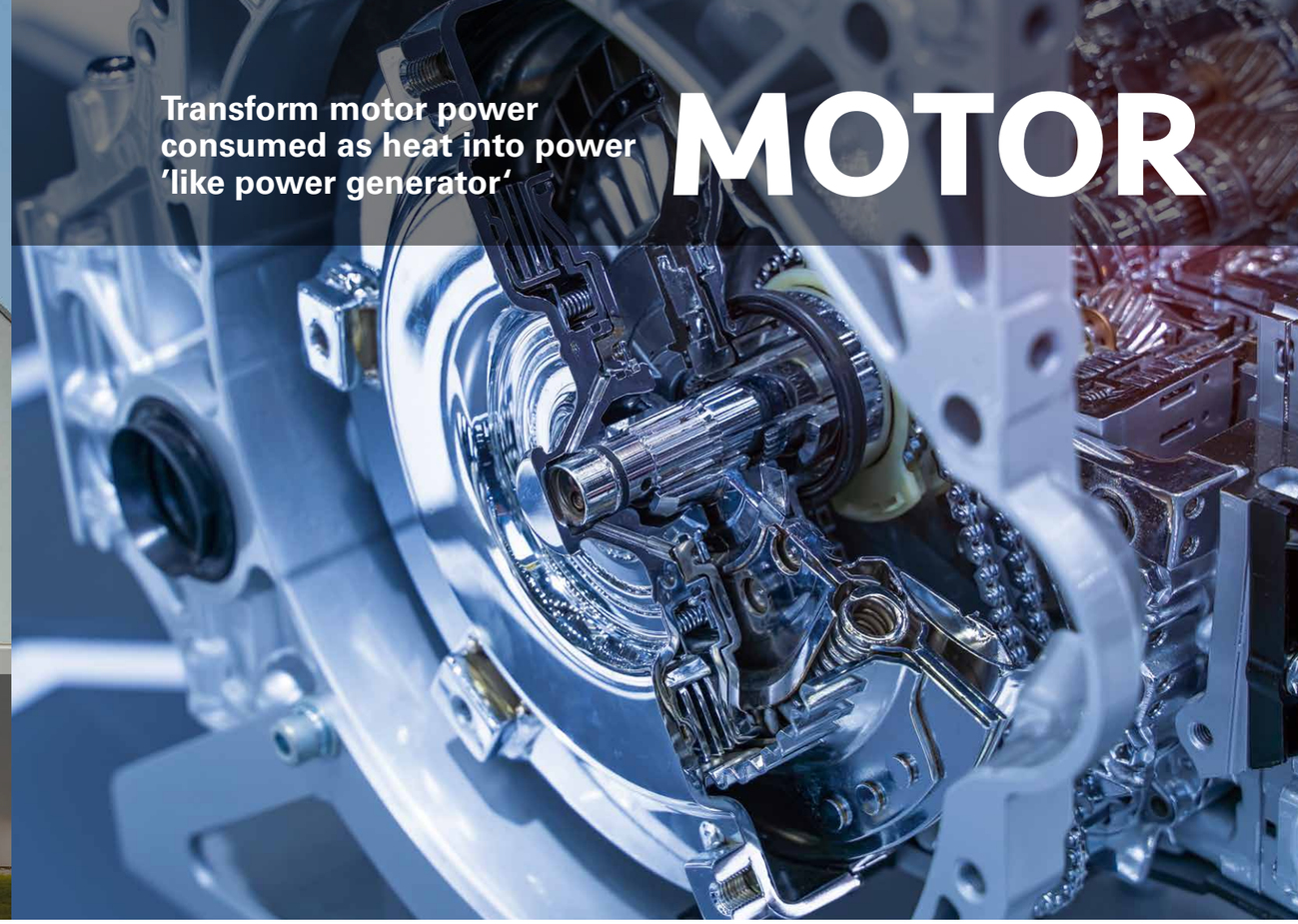
Can be used for evaluating the power convertion products from DC to DC.

Bidirectional On-Board Charger [OBC] P10

Can be used for evaluating the product having various rated electric power.

V2H

Free 'in and out'of electricity by bi-directional

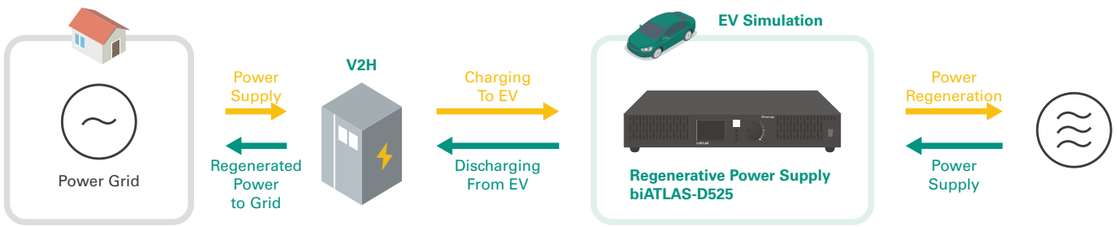


Transform motor power consumed as heat into power 'like power generator'

MOTOR

V2H / Grid Connection

Usable as a high-capacity battery that enables free output/input of electricity.
Can be used for evaluating an energy management system.



Bidirectionality

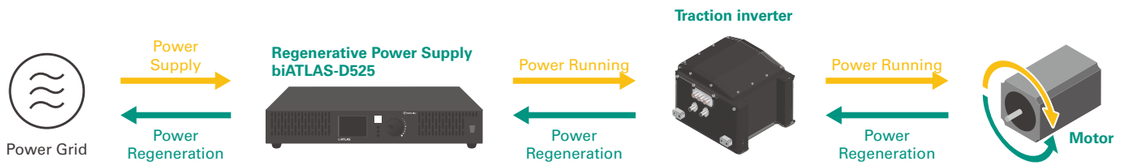
The biATLAS-D series has the function of bidirectional operation.
Bidirectional means AC/DC power transformation bidirectionally from and to power grid.
The bidirectional power supply can simulate a battery including charge and discharge, and realize seamless development, inspections, and evaluations.

Bidirectional enables to simulate a EV battery

V2H evaluation requires two operations; 'charging to an EV battery' and 'suppling power from an EV battery to the home'. The function of a biderectional power supply to simulate an EV battery enables two types of usages per unit.

Motor Drive Inverter

Can be used for evaluating an inverter for motor drive.



Regenerative Operation

Bidirectional operation includes source and sink function. The source is to supply power like a single function power supply. The sink is to sork power like a electronic load. In addition, regeneration means not consuming power as heat but returning power to the facility side. Therefore can configure a system by saving space.

Can sork the back electromotive force of motor and regenerate power

biATLAS-D series can sork back electromotive force during motor rotating or braking. (bidirectional operation)
Plus, since it can regenerate the power to a distribution board, much smaller space is just required than using an electronic loading device or bipolar power supply.

Battery

For 'Portable' Battery Charge and Discharge System

Even for battery simulation

PCS

Battery Charge and Discharge

Can be used as the charge and discharge system for wide range of batteries applying to EV, PV power system etc.

Battery Voltage	Application
800V～1000V	EV Truck / EV Sports Car
500V～1000V	EV Bus
400～750V	Energy Storage System
200～400V	Home ESS
200～400V	Passenger EV
48～96V	Forklift / Electric Motorcycle

Small And Lightweight

The biATLAS-D series can be installed even in a small space, by its features of the easily portable size and weight.

Wide Voltage Range Covered

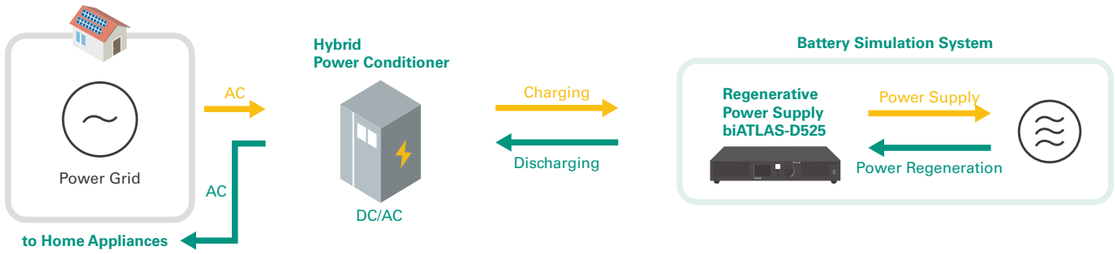
The biATLAS-D series can be used in wide various fields fittng to the application, by its wide voltage range of 0-1000V.

The needs growing unexpectedly for its easily movable size

In terms of battery charge and discharge system, large systems are major with assumption of installation in a manufacturing process. Systems at a movable size are rarely found, but convenient as a ready-to-use system for a laboratory, battery management warehouse and also the demonstration for users.

Hybrid Power Conditioning System

Usable for evaluating Hybrid PCS, by the battery simulating function of power supply.



Battery Simulation System

The biATLAS-D series equips the function for simulating a battery. The battery simulation function of the biATLAS-D enables its operation along the terminal voltage-SOC characteristics and the internal resistance-SOC characteristics. Adjastable parameters are 'Voltage v, Current i, Time t, and Charging status SOC', and the evaluation fitting the characteristics of the battery can be realized.

Power supply with a battery simulation function is useful

PCS evaluation requires a battery or a battery-simulated power supply. In case of a battery, the preliminary charging or the replacement along with battery deterioration is needed. However, the battery-simulated power supply can perform high-efficiency evaluation due to no such work required.

V2V

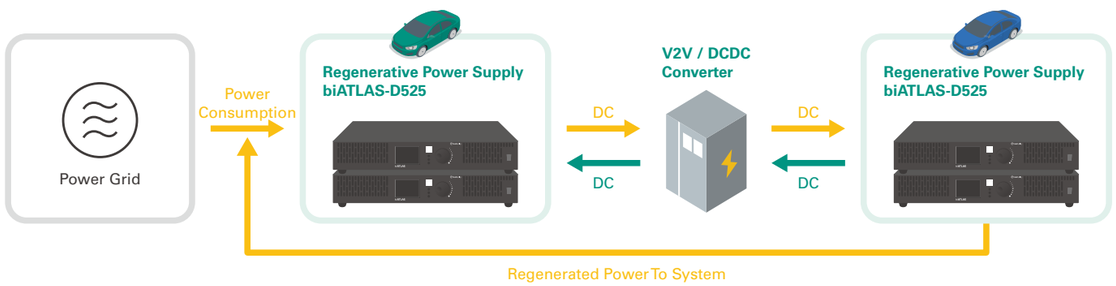
High efficiency regenerative power supply realizes energy saving and seamless testing

Power supply facility with wide scalability

OBC

V2V/DCDC Converter

Can be used for evaluating the power convertion products from DC to DC.



High Efficiency

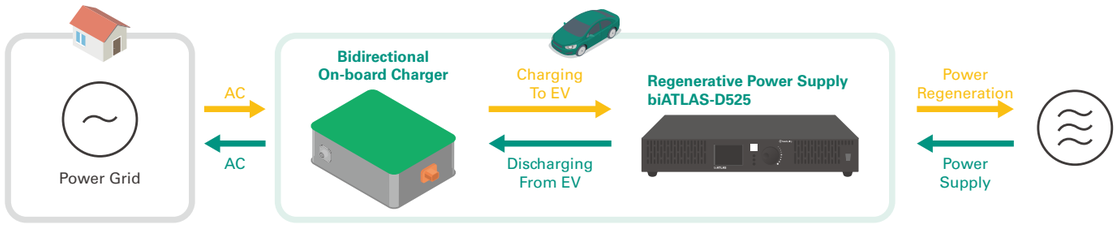
The biATLAS-D series has very high effciency by utilizing the next generation power semiconductor (SiC). Since this high efficiency enables the power consumption reduction, and the power can be also regenerated on site, energy saving is realized. Especially, in case of long hours testing etc, the electricity rate can be reduced to achieve even an economic effect.

Regenerative high efficiency power supply realizes saving energy and space

Regenerative DC power supply is most suitable for the product of bidirectional power conversion from DC to DC, such as V2V. Bidirectional tests can be conducted seamlessly for high work efficiency without rearranging the facility. In addition, 'the high efficiency + regenerative function' enables to contruct the facility with saving energy and space.

Bidirectional On-board Charger [OBC]

Can be used for evaluating the product having various rated electric power.



Power Scalability

The biATLAS-D series can expand the voltage range in serial and the current range in parallel connection. Since 20 units can be connected at maximum in series-parallel, DC regenerative power supply up to 100 kW can be constructed flexibly. The preparation of multiple units of the biATLAS-D enables the construction of a power supply fitting the application on demand, and a common facility can be used in various applications.

A scalable power supply suitable for an OBC to keep enlarging its capacity

The bidirectional on-board battery charger loaded on an EV increases its capacity year by year. For products which market drastically change, a scalable facility is easy-to-use and very useful. Since the biATLAS-D offers excellent power scalability and can simulate a battery, it can be utilized most suitably as the testing facility for the bidirectional on-board battery charger.

biATLAS Series Product Lineup

DC Regenerative Power Supply For High Voltage System

P13–14

biATLAS-D525

- biATLAS-D525 BASIC — HBPS-A2D525-502N
- biATLAS-D525 Booster — HBPS-A2D525-502B
- biATLAS-D525 DOUBLE — HBPS-A2D525-103NP
- biATLAS-D525 DOUBLE-S — HBPS-A2D1000-103NP
- biATLAS-D525 TALL — HBPS-A2D525-203NP
- biATLAS-D525 TALL-S — HBPS-A2D1000-203NP
- biATLAS-D525 TOWER — HBPS-A2D525-403NP
- biATLAS-D525 TOWER-S — HBPS-A2D1000-403NP

biATLAS-D525

DC Regenerative Power Supply For Large Current System

P15–16

biATLAS-D80

- biATLAS-D80 — HBPS-A2D080-502N
- biATLAS-D80 Booster — HBPS-A2D080-502B

biATLAS-D80

DC Regenerative Electronic Load For High Voltage System

P17–18

biATLAS-D525 Load

- biATLAS-D525 Load — HBPS-A2D525-502LN
- biATLAS-D525 Load Booster — HBPS-A2D525-502LB

biATLAS-D525 Load

Rules of Model Name

HBPS ❶ – A2 ❷ D525 ❸ – 103 ❹ ❺ NP ❻

AC Voltage: 200 V / DC Voltage: 0-525 V
Output Capacity: 10 kW / Function: Regenerative Power Supply / Package Equipped with bi-Technology

❶ Series name
❷ AC voltage
❸ DC voltage
❹ Output capacity
❺ Function [Blank: Regenerative Power Supply / L: Electronic load]
❻ Package [Blank: Normal / N: Equipped with bi-Technology / NP: Package Equipped with bi-Technology / B: Booster]

TOWER 40kW

Valuable Package

Wide range output capacity fit
by the combination of Main + Booster.

TALL 20kW

Conbination of packages is possible

The combination of DC regenerative power supply packages is also possible, such as 40 kW + 20 kW = 60 kW by TOWER + TALL.

DOUBLE 10kW

BASIC 5kW

biATLAS-D525

Product Name	Model Name	Output Voltage (DC)	Power Capacity	Output Current (DC)	
biATLAS-D525 BASIC	HBPS-A2D525-502N	525V	5kW	±30A	
biATLAS-D525 Booster	HBPS-A2D525-502B	525V	5kW	±30A	
biATLAS-D525 DOUBLE	HBPS-A2D525-103NP	525V	10kW	±60A	
biATLAS-D525 DOUBLE Compatible	HBPS-A2D1000-103NP	1000V 525V	10kW	±30A ±60A	
biATLAS-D525 TALL	HBPS-A2D525-203NP	1000V	20kW	±120A	
biATLAS-D525 TALL Compatible	HBPS-A2D1000-203NP	1000V 525V	20kW	±60A ±120A	
biATLAS-D525 TOWER	HBPS-A2D525-403NP	525V	40kW	±240A	
biATLAS-D525 TOWER Compatible	HBPS-A2D1000-403NP	1000V 525V	40kW	±120A ±240A	

biATLAS-D80

Product Name	Model Name	Output Voltage (DC)	Power Capacity	Output Current (DC)	
biATLAS-D80	HBPS-A2D080-502N	80V	5kW	±150A	
biATLAS-D80 Booster	HBPS-A2D080-502B	80V	5kW	±150A	

biATLAS-D525 Load

Product Name	Model Name	Output Voltage (DC)	Power Capacity	Output Current (DC)	
biATLAS-D525 Load	HBPS-A2D525-502LN	525V	−5kW	−30A	
biATLAS-D525 Load Booster	HBPS-A2D525-502LB	525V	−5kW	−30A	

High Voltage Type
D525

High Voltage Type
DC Regenerative Power Supply For High Voltage System

The DC regenerative power supply 'biATLAS-D525' committed to usability. Aside from the portable size and weight carried by one person, can be combined in units of 5 kW, so the flexible use is possible in a wide range of applications. Capable as a power supply for testings and evaluations of power electronics equipments and in the application of integrating in a facility.

☑ Power Supply Portable by One Person

Flexible and easy rearrange or change of system capable

☑ High Voltage 1000 V

2 units in series enable the output up to DC 1000 V and 10 kW
Applicable even for the voltage increasing rapidly in EV sector

☑ From 5 kW! Power supply with high flexibility and scalability

Capable to respond to wide scene
Capable to add capacity or options even later

Power Supply Portable by One Person

Conventional DC regenerative power supply had the size and weight that cannot be carried by one person even it is in a 10 kW class.
Large storage space should have been secured even when not to use, and reconfigure to share with other teams was a hard timepains.
biATLAS-D was reduced its size and weight as a power supply itself.
1.5U of a rack mount size and 18kg of a weight per unit enable to reconfigure even by one person.
Therefore, even in case 5 kW testing today and 20 kW testing needs to be suddenly the next day; the facility can be rearranged more rapidly than before.

Realized downsizing by SiC utilization

- Utilized next generation power semiconductor SiC
  Realized the Down-sizing and Weight-saving in the industry-leading level
- Down-sizing enabled to move and to sytem up by less people

Compatible type products can perform high voltage 1000 V output

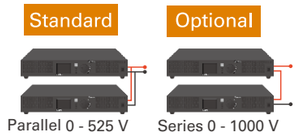
Connection in series enables 1000 V output.

DOUBLE-S	10kW	36kg	1000V 525V	30A 60A
TALL-S	20kW	72kg	1000V 525V	60A 120A
TOWER-S	40kW	144kg	1000V 525V	120A 240A

* Wiring change enables the operation shown in the 525V operating range graph of the below figure.
Two types of operating ranges are applicable by wiring change.

1000V ⟷ 525V compatible

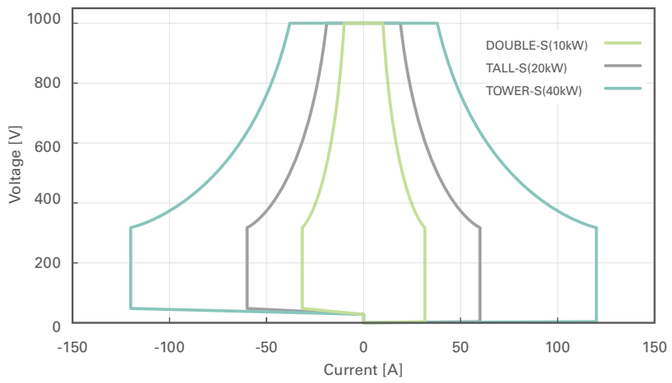
In the case of the 10kW model
1000V 30A ⟷ 525V 60A



Configuration possible in units of 5 kW

Power supply with high flexibility and scalability

BASIC	5kW	18kg	525V	30A
DOUBLE	10kW	36kg	525V	60A
TALL	20kW	72kg	525V	120A
TOWER	40kW	144kg	525V	240A



Flexible configuration like building blocks is possible. The lowest capacity 5 kW, 10 kW by two units, in addition 1000 V and 10 kW by a series connection option etc can be selected to match the testing environment.

BASIC
Main×1

DOUBLE
Main×1
Booster×1

TALL
Main×1
Booster×3

TOWER
Main×1
Booster×7

Large Current Type
D80

biATLAS-D80

Large Current Type
DC Regenerative Power Supply For Large Current System

Large-current version of biATLAS-D debut! Which is a DC regenerative power supply committed to usability. Its scalability by combining in units of 5 kW allows to use flexibly for wide applications. Compact body but large current realized. It can achieve 0V & 150A used for a battery disposal, since it's capable to operate in the whole range of ±150A even when 0V output. Usable for the evaluation of the charge / discharge system for 48 V batteries and e-mobility systems.

Compact body but large current of ± 150 A

Large current system version of the small and light biATLAS-D debut. Although most large current power supplies are large and heavy, the biATLAS-D80 realizes large current by its compact body. 20 units at maximum can be connected and capable of up to 3000A output. Capable to costruct the environment flexibly in low voltage and large current applications with fitting test environments.

☑ Large current ± 150A

Capable of output from 150 A per unit to 3000 A at max.

2U and 30kg of compact body but 150 A of output.

☑ Charge / discharge of 48 V batteries realized by one unit

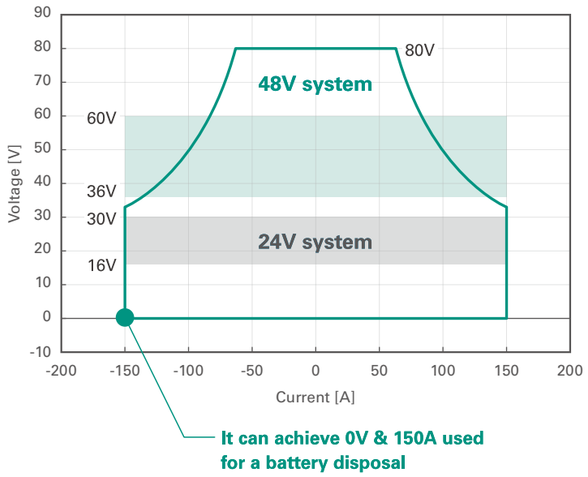
Can be used as a charge / discharge inspection system by insulated bidirectional.

Most suitable for system evaluation of e-mobility.

☑ Optimum for battery simulations

Realized the accuracy and the precision allowing to simulate a battery.

Usable for various systems cosisting batteries.



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Ecological system for regenerative power supply capable to utilize for battery charge / discharge

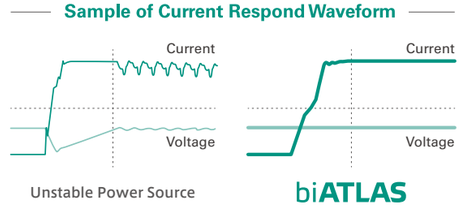
The concept of 'biATLAS-D80' is 'small DC regenerative power supply', under that it can provide large current at max 150 A per unit in lower voltage system, such as 12V/24V/48V often used for batteries. Plus, it can be used for various testings by the circuit topology enabling charge / discharge at 150A even in 0V output.The ecological system can be realized that can circulate the energy, which has been consumed so far as load in the conventional charge / discharge testing using resistance or electronic load.

- Can charge / discharge at max 5 kW, 80 V and 150 A per unit
- Can charge / discharge at ± 150 A even in 0 V output
- Can configure 100 kW with max 3 - series / max 20 - parallel

Optimum voltage and current waveforms for a charge / discharge testing

Stability of voltage and current important for batteries charge / discharge has been realized by using high precision sensors and a **Real-Time Stabilizer** capable of stable control even for load. Such super stable power supply enables testing with reproducibility.

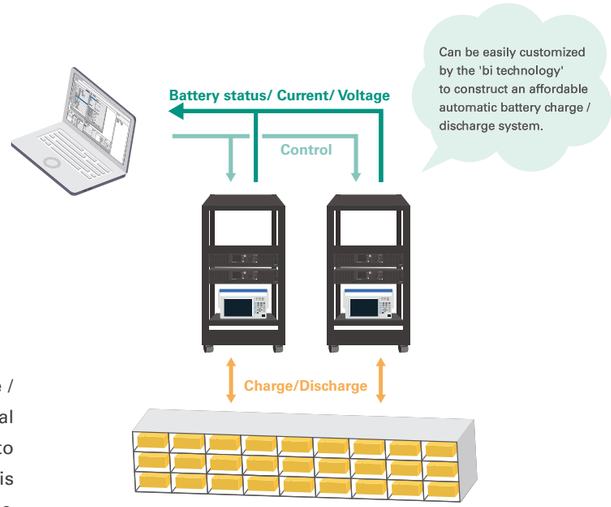
Real Time Stabilizer



Can easily construct a charge / discharge system for batteries

Who is recommended for

- Who is aiming to develop a battery pack or to construct a charge / discharge testing system.
- Who is seeking easily customizable power supplies for a charge / discharge system.



The biATLAS-D80 enables to easily construct a charge / discharge system for a battery pack in EVs and industrial sectors with equipped the 'bi technology' connecting to various measuring instruments and power supplies. This can be recommended for customers who want to construct a small-scale charge / discharge system for battery pack development and who construct a charge / discharge system in linkage with an external system through CAN/LAN. In case constructing a charge / discharge system, the status of a battery is monitored by a controller or a PC controlling charge and discharge, and the charge or discharge commands to be sent to the biATLAS depending on the battery status. the biATLAS can offer even the current and voltage information for charge and discharge.

Electronic Load
D525 Load

biATLAS-D525 Load

Electronic Load
DC Regenerative Electronic Load For High Voltage System

For the evaluation and inspection of the large-capacity DC power supply equippment and DCDC converter, a resistance load is widely used. Although a resistance load is utilized for various purposes due to its comparatively low cost and stable operation, input energy is converted into heat entirely, so large equippment size and system power consumption increase are problems.
biATLAS-D Load is an electronic load capable to regenerate into AC supply the energy having conventionally converted to heat.
By using the biATLAS-D Load instead of a resistance load, the ecological and compact evaluation and inspection system with low electric power consumption can be contructed.

☑ 'Usability' and 'low price' realized regenerative electronic load

Realized up to 100kW regenerative load in one 19-inch rack
Easy rearrangement at facility change due to small size and light weight
By just the minimum essential functions equipped, low price electronic load realized which used to be expensive

☑ Cofigured Ecological system

Capable to reuse the electric energy used to be converted into heat and disposed
Energy circulation type evaluation and inspection system can be contructed
Large capacity equippments can be evaluated and inspected at just minimum power

☑ CR/CC/CV/CP Modes equipped

By CR mode, simulating resistance load can be operated
Load resistance value can be adjusted consecutively without changing connections

Usability and low price realized

Basic functions as a load equipment were made simple and useful configuration.
In addition, that realizes the low price.
Even high degree function can be easily realized by utilizing 'bi technology'.

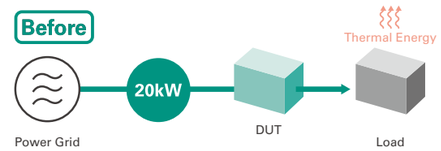
Large Capacity 5kW, 10kW, 20kW, 30kW, 40kW, 50kW, 100kW
High Voltage Up to 525 V by single unit, Up to 1000 V by 2 units in series

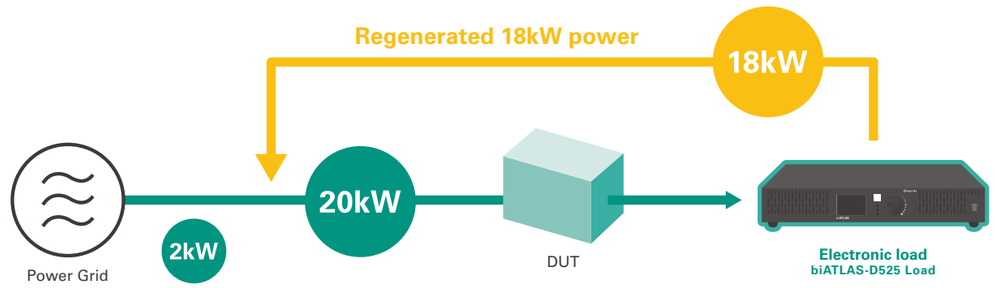
Available to grade up for a fee to
a programmable DC regenerative power supply 'biATLAS-D525'!

headspring

Configured Ecological System

The biATLAS-D525 Load is capable to regenerate into AC supply the electric energy sorked as an electronic load.
Since the energy having conventionally converted into heat and disposed can be reused, electricity rate can be reduced.





Furthermore, by the connection of the biATLAS-D525 Load to the power distribution panel common to the power supply equippment for an evaluation and inspection system, the regenerated energy can be used by the power supply equippment again, and the evaluation and inspection system in an energy circulation type can be constructed. The device under target with large capacity can be evaluated at only low power from the power grid.

CV/CC/CP/CR Modes equipped

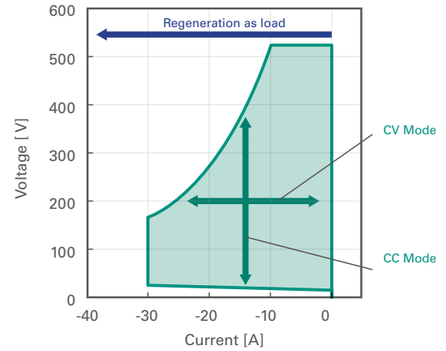
4 operation modes are equipped.

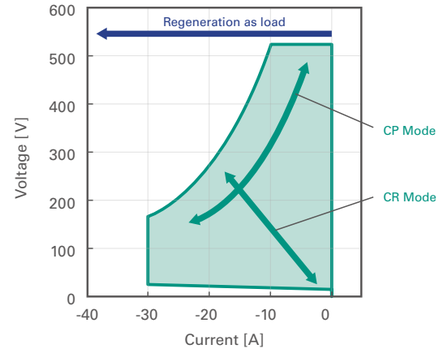
CV Mode Constant Voltage Mode
Make current change at a constant voltage

CC Mode Constant Current Mode
Make voltage change at a constant current

CP Mode Constant Power Mode
Make voltage and current change at a constant power

CR Mode Constant Resistance Mode
Make voltage and current change at a constant resistance

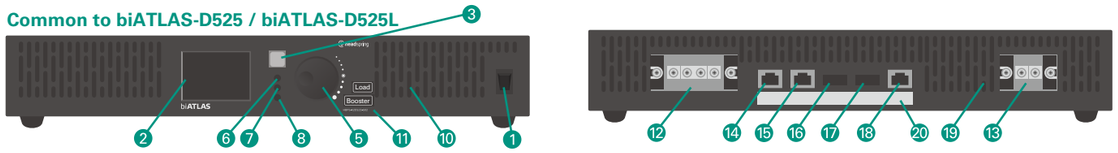




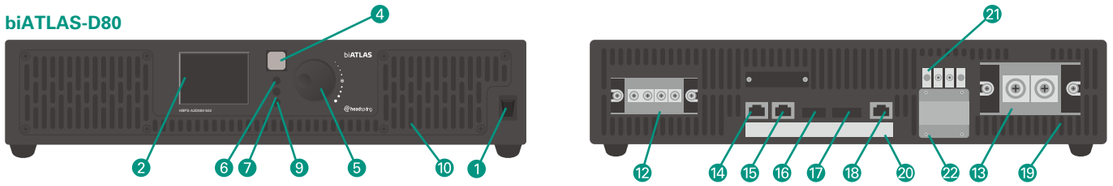
Product Specifications and Options

Controls and Connectors

Common to biATLAS-D525 / biATLAS-D525L

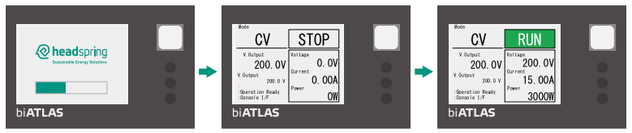


biATLAS-D80

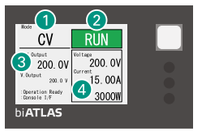


① Main Power Switch	Switch for the main power. Press upward to ON. Press downward to OFF.
② LCD	Diverse info is displayed.
③ Start/Stop Button	To operate start and stop. Green in operation, red in abnormal, and yellow during standby. Otherwise unlit.
④ Output Button	
⑤ Control Knob	Rotate to set values and select items. Clockwise for increases and counterclockwise for decreases. Press enables to set value or to determine item.
⑥ Mode Button	To switch CC, CV, CP and CR modes.
⑦ Shift Button	To switch digits when manipulating values.
⑧ Cancel Button	To switch setting screen. Plus, capable also to go back the screen.
⑨ Menu / Esc Button	
⑩ Air Inlet	Air inlet for fan to cool inside. Never block off these inlets.
⑪ Booster/Load Label	To display it in case of Booster/Load.
⑫ AC Input / Protective Earth Terminals	For the commercial three-phase mains and the earthing.
⑬ DC Output Terminals	DC output terminal block.
⑭ LINK IN	To be used at series-parallel operation.
⑮ LINK OUT	Connect bundled LAN cable or terminating resistor at series-parallel operation.
⑯ CAN Port	To be used to control this equippment via CAN.
⑰ Contact I/O Port	To be used to control this equippment by contact I/O.
⑱ LAN Port	To be used to control this equippment via LAN.
⑲ Air Exit	Air exit for fan to cool inside. Never block off these exits.
⑳ Rating Label	Describing the main circuit input/output specs for this equipment
㉑ Voltage Sensing Terminal	DC voltage detection terminal. Always connect to the DC side.
㉒ Maintenance Terminal	Can not be used. Never open the cover.

biATLAS-D has simple operation until start.
Pressing the switch after setting can start operation immediately.



Displayed items on the screen
narrowed down to four required at minimum.



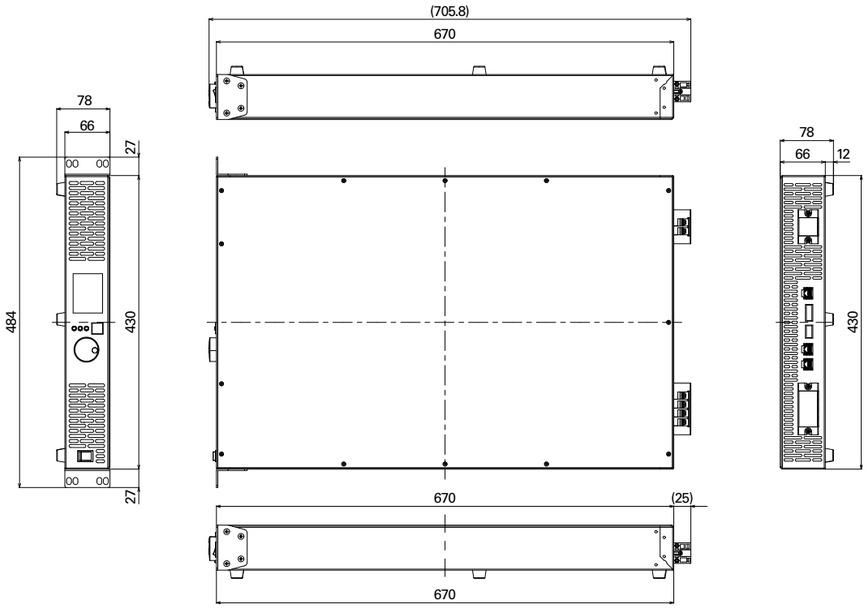
1. Operation mode
2. Operation status
3. Command values + limit values
4. Measure values

Product		biATLAS-D525	biATLAS-D525 Load	biATLAS-D80
Rated Capacity		±5 kW (Power run and regenerate)	-5 kW (Power regenerate)	±5 kW (Power run and regenerate)
Input/output Insulation Type		High freq transformer link		
Operation Mode		Constant voltage (CV) Constant current (CC) Constant power (CP) Constant resistance (CR)		
AC Electrical Specs	Rated Voltage	3-phase AC 200 V (3-phase 3-wire system)		
	Operation Voltage Range	3-phase AC 180–220 V		
	Rated Frequency	50 / 60Hz		
	Frequency Range	49.0~51.0Hz / 58.5~61.5Hz		
	Power Factor	0.95 or more (at Rated Power)		
	Efficiency	92%(at Rated Power)		80% (at Rated Power)
DC Electrical Specs	Voltage Range	DC 0.00-525.00 V (CC mode) DC 2.0–525.0 V (CV and CP mode)		DC 0.00 - 80.00V
	Current Range	±30.00 A	0 - −30.00 A	±150.0 A
	Power Range	±5.0kW	0 - −5.0kW	±5.0kW
	Voltage Accuracy	0.4% F.S.		0.06 %set. + 0.02 %F.S. *3
	Current Accuracy	0.8% F.S.		0.05 %set. + 0.5 %F.S.*3
	Power Accuracy	1.2% F.S.		0.7 %F.S.*3
	Voltage Ripple	0.4%rms F.S.		0.175 %rms F.S.*4,5
	Current Ripple	0.8%rms F.S.		0.55 %rms F.S.*4,5
	Power Ripple	1.2%rms F.S.		1.4 %rms F.S.*4,5
	Voltage Command Value Response	9msec *1		10msec *5,6
	Current Command Value Response	5msec *2		1msec*5,7
	Power Command Value Response	9 msec *1		10msec*5,7
General Specs	Weight	18kg		28kg
	Size (excluding protrusions)	W430 mm D670 mm H66 mm		W430 mm D770 mm H88 mm
	19 inch rack	equiv to 1.5 U		equiv to 2 U
	Std Equipped Functions	Parallel Connection Function, Slew Rate Function, Internal Resistance Simulation Function, and Protection Function (Overvoltage, Overcurrent and Overpower) LAN Communication Function (CMD System And SCPI System)		
	Optional Functions	CAN Communication Function And DIO Communication Function		
	Cooling System	Forced Air Cooling		
	Operating Ambient Temp Range	0 - 40 °C		
	Accuracy Guaranteed Temp Range	25±5°C		
	No. Capable To Connect In Series-parallel	Max 20 units (max 2 - series) (max 20 - parallel)*8		Max 20 units (max 3 - series) (max 20 - parallel)*8

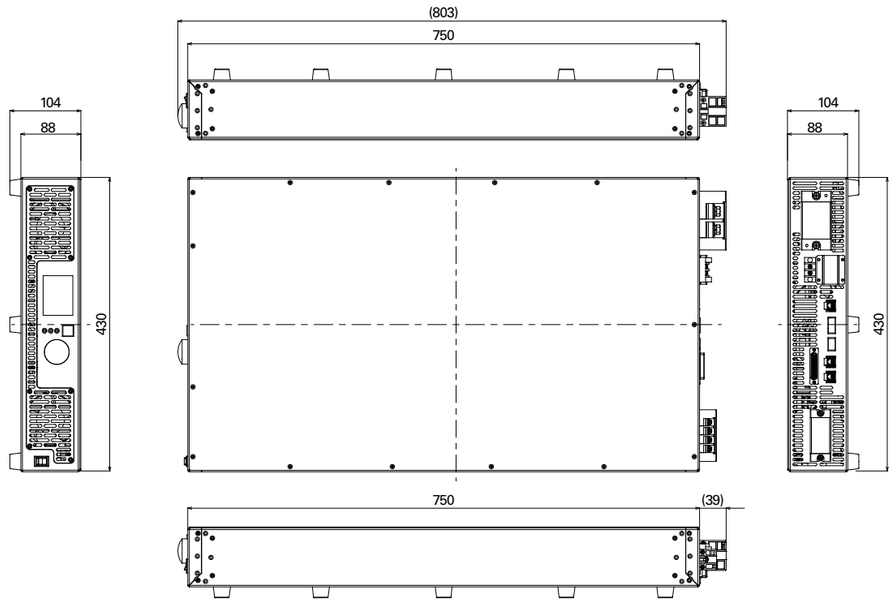
*1: Time in output voltage change by 10 → 90% with respect to the resistance load command value change by 30 → 525 V or 525 → 30 V
*2: Time in output change by 10 →90% with respect to the voltage source command value change by ±100% F.S.
*3: Within accuracy guaranteed temperature range
*4: At rated output and resistive load
*5: Wiring length 2 m or less for one side from DC output terminal to D.U.T.
*6: Time in output voltage change 10→90% with respect to the resistance load command value change by 0←→100%
*7: Time in output change by -90%→90% with respect to the voltage source command value change by ±100% F.S.
*8: Series function as an option

Dimentions

Common to biATLAS-D525 / biATLAS-D525L



biATLAS-D80



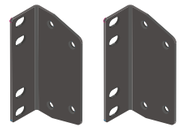
Standard Accessory

biATLAS-D525 biATLAS-D525 Load

Accessory	LAN Cable for series-parallel
	Terminating Resistor for series-parallel*
	A set of two Rack Mounting Brackets*

*Terminating resistor and rack mounting brackets can be additionally purchased as an option

▲ Terminating Resistor for series-parallel

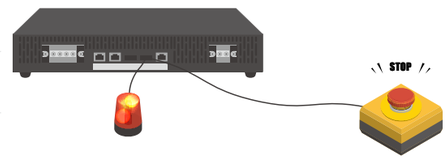


▲ Rack Mounting Brackets

Options

biATLAS-D525 biATLAS-D525 Load

Communication and Connection	Series Connection Function
	CAN Communication Function
	DIO Emergency Stop Function
Accessory	Vertical Trolley (For 1 To 2 Units)
	A Set Of Four Connection Fittings
AC Bus Bar	AC Bus Bar Set For Connecting 2
	AC Bus Bar Set For Connecting 3
	AC Bus Bar Set For Connecting 4
DC Bus Bar	DC Bus Bar Set For 2 In Parallel
	DC Bus Bar Set For 3 In Parallel
	DC Bus Bar Set For 4 In Parallel
	DC Bus Bar Set For 2 In Series
	DC Bus Bar Set For 2 In Series And 2 In ParallelV



▲ Example of using DIO Emergency Stop Function

▲ Vertical Trolley (attached with rubber legs)

▲ Vertical Trolley (attached with castors)

biATLAS-D80

Communication and Connection	Series Connection Function
	CAN Communication Function
	DIO Emergency Stop Function
Accessory	LAN Cable for series-parallel
	Terminating Resistor for series-parallel
	A set of two Rack Mounting Brackets

Make society possible
where everyone on Earth can benefit from electricity

headspring

※Specification subject to change without notice

2022.9