

DCB Series



Regenerative, Bidirectional DC Power Supplies



DCB Series DC Source + Sink
5kW to 1920kW
Bidirectional + Regenerative
Up to 2000Vdc, 1000Adc
15kW in 3U or 30kW in 4U
Parallel up to 1.92MW

KEY BENEFITS OF DCB TWO QUADRANT POWER SUPPLIES

- Combines a DC power supply with a regenerative DC load
- Output voltage ranges from 60 V up to 2000 V
- Constant Power Auto-ranging Voltage/Current profile
- Current: up to 1000 A/unit, parallelable for higher current
- Power levels from 5kW to 1920kW (1.92MW)
- High overall efficiency saves on energy cost
- Three phase 208~480Vac universal input voltage
- Active Power Factor Corrected AC input
- Flexible, precisely regulated output power stages
- Various protection circuits (OVP, OCP, OPP, OTP)
- Intuitive TFT touch panel with display of settings, read-backs, status and notifications
- Remote sensing with automatic open sense detection
- Galvanically isolated analog interface and USB port
- Built-in Battery Charging and Discharging Profiles
- Programmable Resistance Mode
- ModBus RTU or ModBus TCP support

Look no further for powerful yet cost effective Battery test solutions than the compact DCB Series regenerative bi-directional DC power supplies/loads from Adaptive Power Systems. Designed using state-of-the-art Digital Signal Processing, these units combine a DC power supply with a regenerative electronic DC load. The DCB units all support an auto-ranging constant power V-I output profile that offers both higher voltage and high current from a single model.

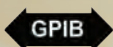
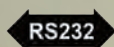
Available at power levels of 5kW, 10kW, 15kW and 30kW with voltage ranges to 2000Vdc and max. current of 1000Adc per unit.

Master/ Slave mode for series or parallel operation available for higher voltage and or power requirements.



Worldwide Supplier of Power Conversion Equipment

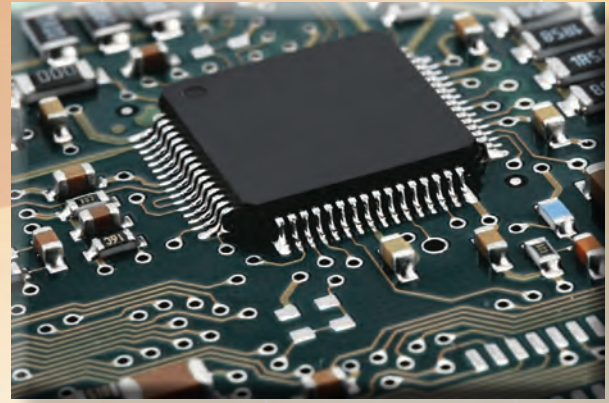
Toll Free 1-888-239-1619 www.adaptivepower.com



VALUE & PERFORMANCE BY LEVERAGING MODERN TECHNOLOGY

The DCB Series of precision Regenerative Two Quadrant DC power Supplies uses state of the art field programmable logic array (FPGA) technology to implement a digital power conversion topology that combines a DC source with a Regenerative DC load into a single unit. High efficiency energy recycling back to the grid results in significant energy and HVAC cost savings, especially for large EV battery pack applications.

Packaged in a compact, standard 19" rack mount chassis, these powerful functions are easily accessible through an easy to use, color touch screen based user interface from the front panel or by sending commands over one of several available digital control interfaces.



DESIGNED TO SUPPORT E-MOBILITY APPLICATIONS

The ability of the DCB Series to both source and sink DC power using regenerative technology makes them ideally suitable for a E-Mobility development and test applications. With power levels from 5000W to

15000W per 3U or 30000W per 4U chassis and ability to parallel units for higher power needs, a wide range of present and future power demands can be met. **Put the DCB Series to the test!**



Battery Pack Charging and Discharging



Fuel Cell Testing



EV Drive Train Development

MODERN COLOR TOUCH USER INTERFACE FOR EASE OF OPERATION



Power On/Off

Air Intake



Color LCD Touch Display

Dual Shuttles Output On/Off

USB Port

All DCB Series models share an intuitive user interface using a combination of a large color LCD touch screen and two rotary shuttle knobs. This results in an easy to use power supply for novice and experienced users alike. The large color LCD allows visualization of output set-

tings and configurations as well as a wide assortment of precision DC measurements.

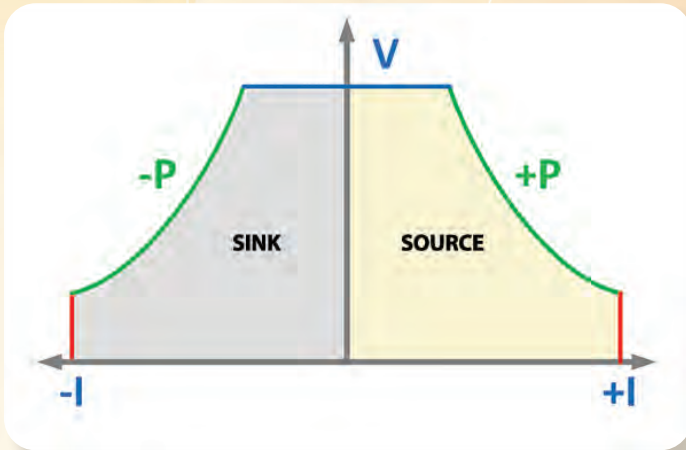
Changing parameters such as voltage or current can be done using the touch screen or the shuttle.

VALUE PROPOSITION

Why choose DCB Series?

When it comes to bidirectional DC source and sink power supplies, only the DCB Series offers the range of voltage, current and power levels to support both today's and tomorrow's leading edge electric vehicle battery technologies. Here are some other things that make the DCB Series special:

Auto-ranging Power Stage



All models are equipped with a flexible auto-ranging output/input stage which supports higher voltage at lower current, or a higher current at lower voltage, only limited by the adjustable power set value or the rated power. Therefore, a wide range of voltage and current combinations can be covered by the use of just one DCB model.

DC Voltage and Current Ranges

Choice of voltage, current and power. DC voltages between 0~80 V and 0~2000 V, currents between 0~20 A and 0~1000 A and several output power ratings of 5 kW to 30 kW per chassis are available. The DC bus bars are located on the rear panel.

DC Current Sinking

When discharging batteries, all current sunk by the DCB unit is regenerated back to the grid rather than dissipated as is the case when using conventional resistive or electronic loads. This results in both energy and cooling cost savings that help offset the acquisition cost of the test equipment. Transitions between source and sink modes are smooth and without any interruption or time loss ensure true 2-Quadrant operation.

Protection Features

For protection of the equipment connected, it is possible to set an over-voltage protection threshold (OVP), as well as an over-current (OCP) and over-power (OPP) limit.

As soon as one of these thresholds is reached for any reason, the DCB unit will be immediately shut off and a status signal will be generated on the display and via the interfaces. There is also an over-temperature protection, which will shut off the unit if the power supply overheats.

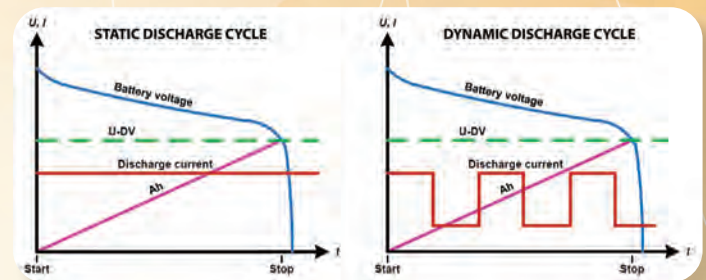
Remote Voltage Sensing

The voltage sensing input can be connected directly to the load in order to compensate for any voltage drop along the power cables, up to a certain level. If the Vsense input is connected to the load, the power supply will adjust the output voltage automatically to ensure the precise programmed voltage is available at the load.

Analog Interface

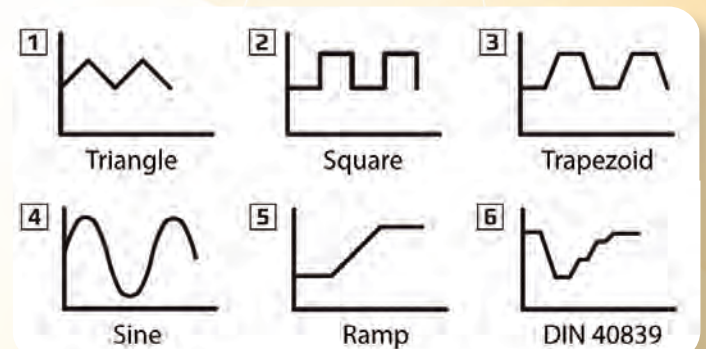
All models feature a galvanically isolated analog interface terminal, located on the rear of the supply. It offers analog inputs to set voltage, current, power and resistance from 0...100% through control voltages of 0~10 V or 0~5 V. To monitor the voltage and current, there are analog outputs with 0~10 V or 0~5 V. Also, several inputs and outputs are available for controlling and monitoring the power supply status.

Battery Test Modes



Dedicated static and dynamic battery charge and discharge modes are embedded in the DCB controller for battery testing and forming application support.

Function generator



All DCB models include a function generator which can generate typical functions, as displayed in the figure below. These waveforms can be applied to either the output voltage or the output current. The generator can be completely configured and controlled by using the touch panel on the screen of the power supply or via remote control using one of the digital interfaces.

The predefined functions offer all necessary parameters to the user, such as Y offset, time / frequency or amplitude, for full configuration ability.

Master-slave

All DCB Series models feature a digital master-slave bus. This bus can be used to connect up to 36 identical models in parallel operation support higher power requirements.

TECHNICAL SPECIFICATIONS 5KW (3KW) Models

MODEL	DCB80-170HP ³	DCB200-70HP	DCB360-40HP	DCB500-30HP	DCB750-20HP
Voltage Range	0~80 V	0~200 V	0~360 V	0~500 V	0~750 V
Current Range	0...170 A	0...70 A	0...40 A	0...30 A	0...20 A
CP V-I Range	29.4V@170A ~ 80V@62.5A	71.4V@70A ~ 200V@25A	125V@40A ~ 360V@13.9A	166.7V@30A ~ 500V@10A	250V@20A ~ 750V@6.7A
Voltage Ripple	<100 mVpp <10 mVrms	<300 mVpp <40 mVrms	<320mVpp <55mVrms	<350mVpp <70mVrms	<800mVpp <200mVrms
U _{Min} for I _{Max} (Sink)	< 0.5 V	< 2.0 V	< 2.0 V	< 2.2 V	< 2.2 V
Insulation -DC to PE	±600 Vdc	±1000 Vdc	±1000 Vdc	±1500 Vdc	±1500 Vdc
Insulation +DC to PE	+600 Vdc	+1000 Vdc	+1000 Vdc	+2000 Vdc	+2000 Vdc
Power Range ⁴	0~5000 W	0~5000 W	0~5000 W	0~5000 W	0~5000 W
Resistance Range	0.016~26 Ω	0.1~160 Ω	0.3~520 Ω	0.6~1000 Ω	1.2~2200 Ω
Output Capacitance	7790 μF	2520 μF	393 μF	180 μF	180 μF
Efficiency	94.5%	94.5%	95.5%	95.5%	95.5%
Weight	18kg/39.7lbs	18kg/39.7lbs	18kg/39.7lbs	18kg/39.7lbs	18kg/39.7lbs

TECHNICAL SPECIFICATIONS 10KW (5KW) Models

MODEL	DCB80-340HP ³	DCB200-140HP	DCB360-80HP	DCB500-60HP	DCB750-40HP	DCB1000-30HP	DCB1500-20HP
Voltage Range	0~80 V	0~200 V	0~360 V	0~500 V	0~750 V	0~1000 V	0~1500 V
Current Range	0...340 A	0...140 A	0~80 A	0~60 A	0~40 A	0~30 A	0~20 A
CP V-I Range	29.4V@340A ~ 80V@125A	71.4V@140A ~ 200V@50A	125V@80A ~ 360V@27.8A	166.7V@60A ~ 500V@20A	250V@40A ~ 750V@13.3A	333.3V@30A ~ 1000V@10A	500V@20A ~ 1500V@6.7A
Voltage Ripple	<100mVpp <10mVrms	<300mVpp <40mVrms	<320mVpp <55mVrms	<350mVpp <70mVrms	<800mVpp <200mVrms	<1000mVpp <200mVrms	<2000mVpp <400mVrms
U _{Min} for I _{Max} (Sink)	< 0.5 V	< 2.0 V	< 2.0 V	< 2.2 V	< 2.2 V	< 4.0 V	< 4.0 V
Insulation -DC to PE	±600 Vdc	±1000 Vdc	±1000 Vdc	±1500 Vdc	±1500 Vdc	±1500 Vdc	±1500 Vdc
Insulation +DC to PE	+600 Vdc	+1000 Vdc	+1000 Vdc	+2000 Vdc	+2000 Vdc	+2000 Vdc	+2000 Vdc
Power Range ⁴	0~10000 W	0~10000 W	0~10000 W	0~10000 W	0~10000 W	0~10000 W	0~10000 W
Resistance Range	0.008~13 Ω	0.05~80 Ω	0.15~260 Ω	0.3~500 Ω	0.6~1100 Ω	1.2~2200 Ω	2.6~4500 Ω
Output Capacitance	15980 μF	5040 μF	786 μF	360 μF	360 μF	90 μF	90 μF
Efficiency	94.5%	94.5%	95.5%	95.5%	95.5%	95.5%	95.5%
Weight	25kg/55.1lbs	25kg/55.1lbs	25kg/55.1lbs	25kg/55.1lbs	25kg/55.1lbs	25kg/55.1lbs	25kg/55.1lbs

TECHNICAL SPECIFICATIONS 15KW (9KW) Models

MODEL	DCB80-510HP ³	DCB200-210HP	DCB360-120HP	DCB500-90HP	DCB750-60HP	DCB1000-40HP	DCB1500-30HP	DCB2000-20HP
Voltage Range	0~80 V	0~200 V	0~360 V	0~500 V	0~750 V	0~1000 V	0~1500 V	0~2000 V
Current Range	0~510 A	0~210 A	0~120 A	0~90 A	0~60 A	0~40 A	0~30 A	0~20 A
CP V-I Range	29.4V@510A ~ 80V@187.5A	71.4V@210A ~ 200V@75A	125V@120A ~ 360V@41.7A	166.7V@90A ~ 500V@30A	250V@60A ~ 750V@20A	375V@40A ~ 1000V@15A	500V@30A ~ 1500V@10A	667V@22A ~ 2000V@7.5A
Voltage Ripple	<100mVpp <10mVrms	<300mVpp <40mVrms	<320mVpp <55mVrms	<350mVpp <70mVrms	<800mVpp <200mVrms	<1600mVpp <300mVrms	<2400mVpp <400mVrms	<2400mVpp <400mVrms
U _{Min} for I _{Max} (Sink)	< 0.5 V	< 2.0 V	< 2.0 V	< 2.2 V	< 2.2 V	< 5.2 V	< 5.2 V	< 5.2 V
Insulation -DC to PE	±600 Vdc	±1000 Vdc	±1000 Vdc	±1500 Vdc	±1500 Vdc	±1500 Vdc	±1500 Vdc	±1500 Vdc
Insulation +DC to PE	+600 Vdc	+1000 Vdc	+1000 Vdc	+2000 Vdc	+2000 Vdc	+2000 Vdc	+2000 Vdc	+2000 Vdc
Power Range ⁴	0~15000 W	0~15000 W	0~15000 W	0~15000 W	0~15000 W	0~15000 W	0~15000 W	0~15000 W
Resistance Range	0.02~25 Ω	0.033~50 Ω	0.1~180 Ω	0.16~340 Ω	0.4~740 Ω	0.8~1300 Ω	2.5~3000 Ω	3.5~5300 Ω
Output Capacitance	23970 μF	7560 μF	1179 μF	540 μF	540 μF	131 μF	60 μF	60 μF
Efficiency	94.5%	94.5%	95.5%	95.5%	95.5%	95.5%	95.5%	95.5%
Weight	31kg/68.3lbs	31kg/68.3lbs	30kg/66.1lbs	31kg/68.3lbs	31kg/68.3lbs	31kg/68.3lbs	31kg/68.3lbs	31kg/68.3lbs

Note 1: Ripple RMS value is measured at LF with BWL 300 kHz, Ripple PP value is measured at HF with BWL 20MHz

Note 2: Weight of the base version, models with option(s) may vary

Note 3: A 60V model DCB60-xxxHP is available as well with same max current rating. All other specs same as DCB80-xxxHP 80V model

Note 4: Power rating shown applies with 380Vac ~ 480Vac Input Voltage applied. For 208Vac input, max. power is 60% of rated power.



5000 Watt Models 750V Max.



10000 Watt Models 1000V Max.



15000 Watt Models 1500V Max.

TECHNICAL SPECIFICATIONS 30KW Models

MODEL	DCB80-1000HP ³	DCB200-420HP	DCB360-240HP	DCB500-180HP
Voltage Range	0~80 V	0~200 V	0~360 V	0~500 V
Current Range	0~1000 A	0~420 A	0~240 A	0~180 A
CP V-I Range	30V@1000A ~ 80V@375A	71.4V@420A ~ 200V@150A	125V@240A ~ 360V@83.3A	166.7V@180A ~ 500V@60A
Voltage Ripple ¹	<480mVpp <37mVrms	<450mVpp <60mVrms	<480mVpp <83mVrms	<525mVpp <105mVrms
Insulation -DC to PE	±500 Vdc	±800 Vdc	±1500 Vdc	±1500 Vdc
Insulation +DC to PE	+600 Vdc	+1000 Vdc	+2000 Vdc	+2000 Vdc
Power Range ⁴	0~30000 W (0~18000 W)	0~30000 W (0~18000 W)	0~30000 W (0~18000 W)	0~30000 W (0~18000 W)
Efficiency	94.0%	94.2%	94.6%	95.3%
Weight ²	50kg/110lbs	50kg/110lbs	50kg/110lbs	50kg/110lbs

TECHNICAL SPECIFICATIONS 30KW Models continued

MODEL	DCB750-120HP	DCB1000-80HP	DCB1500-60HP	DCB2000-40HP
Voltage Range	0~750 V	0~1000 V	0~1500 V	0~2000 V
Current Range	0~120 A	0~80 A	0~60 A	0~40 A
CP V-I Range	250V@120A ~ 750V@40A	375V@80A ~ 1000V@30A	500V@60A ~ 1500V@20A	750V@40A ~ 2000V@15A
Voltage Ripple ¹	<1200mVpp <300mVrms	<2400mVpp <450mVrms	<3600mVpp <600mVrms	<3600mVpp <600mVrms
Insulation -DC to PE	±1500 Vdc	±1500 Vdc	±1500 Vdc	±1500 Vdc
Insulation +DC to PE	+2000 Vdc	+2000 Vdc	+2000 Vdc	+2000 Vdc
Power Range ⁴	0~30000 W (0~18000 W)	0~30000 W (0~18000 W)	0~30000 W (0~18000 W)	0~30000 W (0~18000 W)
Efficiency	95.5%	94.6%	95.3%	95.5%
Weight ²	50kg/110lbs	50kg/110lbs	50kg/110lbs	50kg/110lbs

Note 1: Ripple RMS value is measured at LF with BWL 300 kHz, Ripple PP value is measured at HF with BWL 20MHz

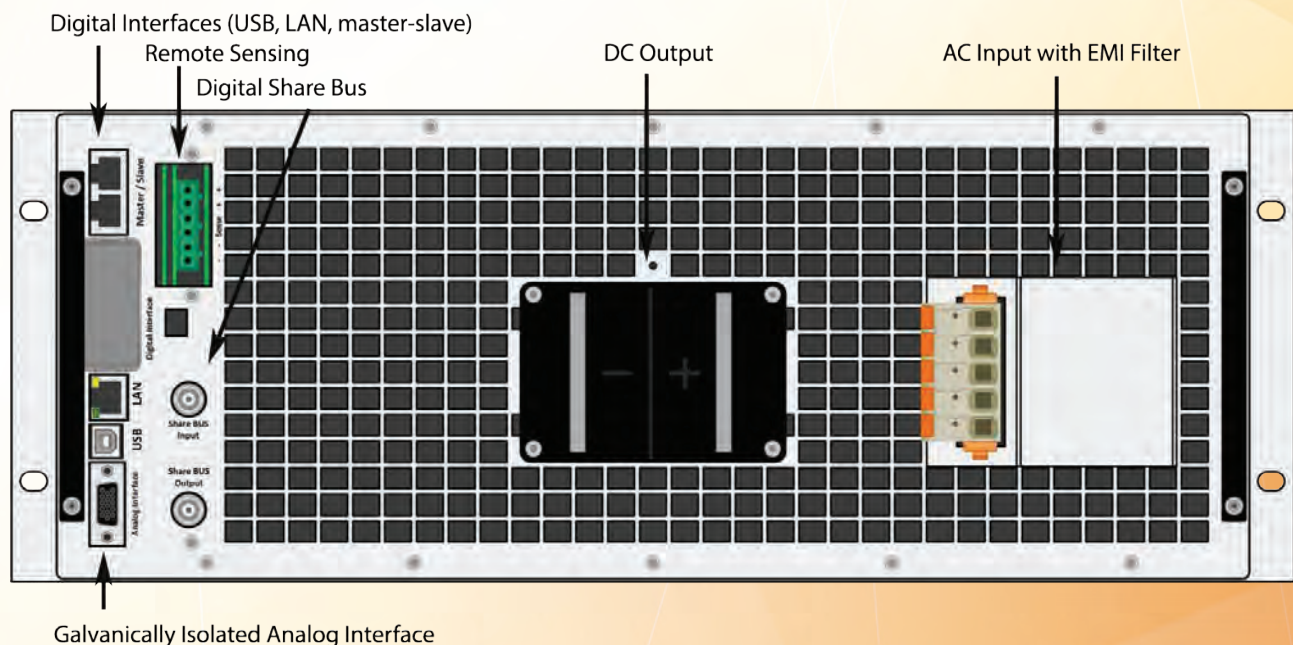
Note 2: Weight of the base version, models with option(s) may vary

Note 3: A 60V model DCB60-1000HP is available as well with same max current of 360A. All other specs same as DCB80-1000HP 80V model

Note 4: Power rating shown applies with 380Vac ~ 480Vac Input Voltage applied. For 208Vac input, max. power is 60% of rated power.

REAR PANEL CONNECTIONS 4U MODELS

All power input and output connectors as well as interfaces are located on the rear panel of the power supply. This supports rack mounting of the power supplies in ATE systems as all internal cabinet wiring routes to the back of the unit and leaves the front panel display and controls accessible from the front. The illustration below shows the various connector locations on the rear panel.



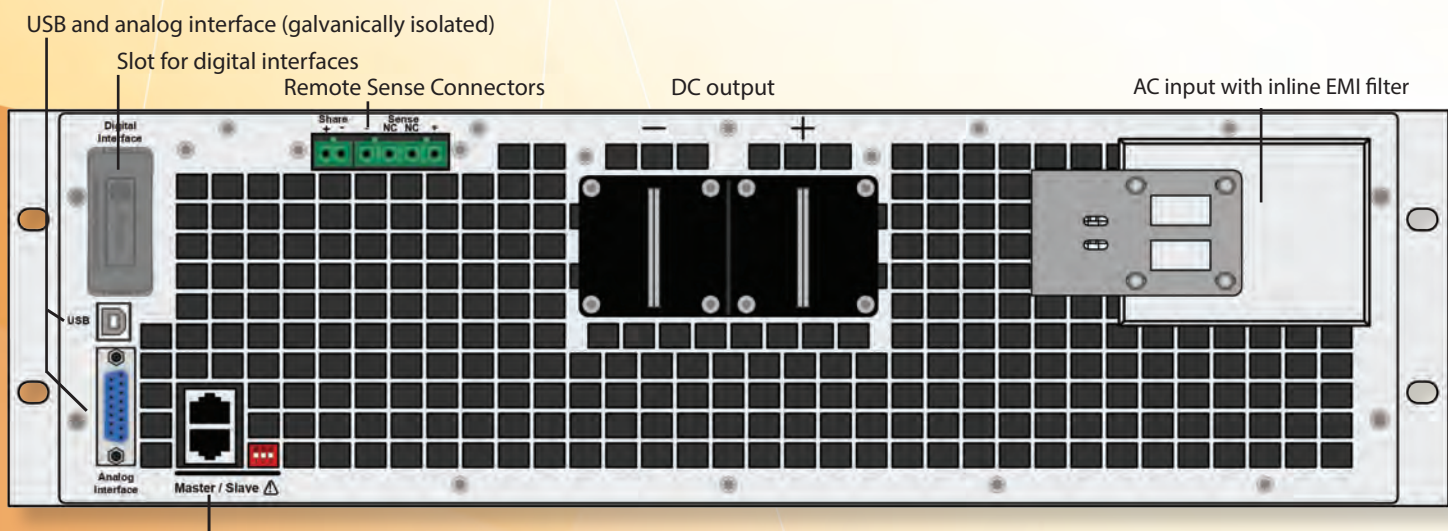
TECHNICAL SPECIFICATIONS

MODEL	All Models
AC Input	
Input Voltages	
All Models	208V _{LL} ~ 480V _{LL} ±10%, 3ph
For 208Vac input, power derates to 60%	380V _{LL} ~ 480V _{LL} ±10%, 3ph
Frequency	45~66 Hz
Power Factor	> 0.99
DC Output - Voltage	
Accuracy	3U Models: < 0.1% of F.S. 4U Models: < 0.05% of F.S.
Load regulation 0-100%	< 0.05% of F.S.
Line regulation ±10% ΔVac	< 0.02% of F.S.
Response Time 10-100% load	< 2 msec
Slew rate 10-90% (Source)	< 30 msec
Over-voltage protection	Adjustable, 0~110% Vnom
Remote Sense Compensation (Source)	Max. 5% of Voltage Range
No load discharge time on DC off	100% V to < 60 V, less than 10 sec
DC Current	
Accuracy	3U Models: < 0.2% of F.S. 4U Models: < 0.1% of F.S.
Load regulation 0-100% ΔVdc	< 0.15% of F.S.
Slew rate (Sink) 10-90%	< 1 msec
DC Power	
Accuracy	3U Models: < 1.0% of F.S. 4U Models: < 0.3% of F.S.
DC Resistance	
Accuracy	< (1.0% of Max R + 0.3% Rated Current)
Protections and Isolation	
Over-voltage category	2
Protection	OT, OVP, OCP, OPP, PF
Insulation	
AC input to enclosure	2500 Vdc
AC input to DC output	2500 Vdc
DC output to enclosure (PE)	Model specific. See model tables
Parallel Operation	
	Master-slave, up to 16 units
Regulatory Standards 3U Models	
	EN 61010, EN 61000-6-2:2016-05 and IEC 61000-6-3:2011-09 Class B
Regulatory Standards 4U Models	
	EN 61010-2:2010, EN 61000-6-2:2016-05, IEC 61000-6-3:2011-09 Class B

MODEL	All Models
Environmental	
Pollution Degree	2
Protection Class	1
Cooling	
15kW and Lower Models:	Forced air, temperature controlled fans
30kW Models:	Forced air, temp. controlled fans. Water Cooled versions available
Temperature	Operating: 0~50 °C / 32~122 °F Storage: -20~70 °C / -4~158 °F
Relative humidity	< 80%, non-condensing
Altitude	Operating: < 2000 m (1.242 mi)
Front Panel	
Display	Color Touch Screen Graphics LCD
Controls	Dual Rotary Digital Encoders
Output on/off	Push Button
Digital Interfaces	
Internal	1x USB type B for communication, 1x GPIB option (on 3U models only)
Interface Slot	1x for retrofittable plug-in modules
Analog Interfaces	
Internal	Built-in, 15 pole D-Sub (female), galvanically isolated
Signal range	0~5 V or 0~10 V (selectable)
Inputs	V, I, P, R, remote control on-off, DC output on-off, resistance mode on-off
Outputs	V, I, alarms, reference voltage, status
Accuracy V / I / P / R	0~10 V: < 0.2% 0~5 V: < 0.4%
Dimensions (W x H x D)	
3U Chassis Height Models	19" x 5.25" x 26.4" 483 x 133 x 670 mm
4U Chassis Height Models	19" x 7.0" x 26.4" 483 x 178 x 670 mm

REAR PANEL CONNECTIONS 3U MODELS

All power input and output connectors as well as interfaces are located on the rear panel of the power supply. This supports rack mounting of the power supplies in ATE systems as all internal cabinet wiring routes to the back of the unit and leaves the front panel display and controls accessible from the front. The illustration below shows the various connector locations on the rear panel.



ORDERING INFORMATION

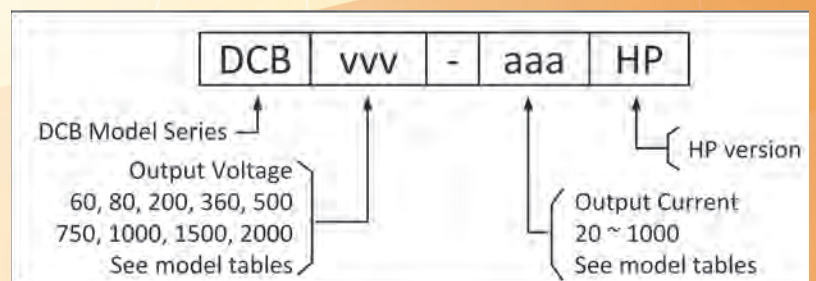
5000W MODELS	DESCRIPTION	208~480V AC 3 ϕ INPUT	RACK HEIGHT
DCB60-120HP	DC Power Supply, 5000W, 0-60V, 0-120A	Power derating @ 208Vac input	3U
DCB80-120HP	DC Power Supply, 5000W, 0-80V, 0-120A		
DCB200-70HP	DC Power Supply, 5000W, 0-200V, 0-70A		
DCB360-40HP	DC Power Supply, 5000W, 0-360V, 0-40A		
DCB500-30HP	DC Power Supply, 5000W, 0-500V, 0-30A		
DCB750-20HP	DC Power Supply, 5000W, 0-750V, 0-20A		
10,000W MODELS	DESCRIPTION	208~480V AC 3 ϕ INPUT	RACK HEIGHT
DCB60-240HP	DC Power Supply, 10,000W, 0-60V, 0-240A	Power derating @ 208Vac input	3U
DCB80-240HP	DC Power Supply, 10,000W, 0-80V, 0-240A		
DCB200-140HP	DC Power Supply, 10,000W, 0-200V, 0-140A		
DCB360-80HP	DC Power Supply, 10,000W, 0-360V, 0-80A		
DCB500-60HP	DC Power Supply, 10,000W, 0-500V, 0-60A		
DCB750-40HP	DC Power Supply, 10,000W, 0-750V, 0-40A		
DCB1000-30HP	DC Power Supply, 10,000W, 0-1000V, 0-30A		
DCB1500-20HP	DC Power Supply, 10,000W, 0-1500V, 0-20A		
15000W MODELS	DESCRIPTION	208~480V AC 3 ϕ INPUT	RACK HEIGHT
DCB60-360HP	DC Power Supply, 15,000W, 0-60V, 0-360A	Power derating @ 208Vac input	3U
DCB80-360HP	DC Power Supply, 15,000W, 0-80V, 0-360A		
DCB200-210HP	DC Power Supply, 15,000W, 0-200V, 0-210A		
DCB360-120HP	DC Power Supply, 15,000W, 0-360V, 0-120A		
DCB500-90HP	DC Power Supply, 15,000W, 0-500V, 0-90A		
DCB750-60HP	DC Power Supply, 15,000W, 0-750V, 0-60A		
DCB1000-40HP	DC Power Supply, 15,000W, 0-1000V, 0-40A		
DCB1500-30HP	DC Power Supply, 15,000W, 0-1500V, 0-30A		
DCB2000-20HP	DC Power Supply, 15,000W, 0-2000V, 0-20A		
30000W MODELS	DESCRIPTION	208~480V AC 3 ϕ INPUT	RACK HEIGHT
DCB60-1000HP	DC Power Supply, 30,000W, 0-60V, 0-1000A	Power derating @ 208Vac input	4U
DCB80-1000HP	DC Power Supply, 30,000W, 0-80V, 0-1000A		
DCB200-420HP	DC Power Supply, 30,000W, 0-200V, 0-420A		
DCB360-240HP	DC Power Supply, 30,000W, 0-360V, 0-240A		
DCB500-180HP	DC Power Supply, 30,000W, 0-500V, 0-180A		
DCB750-120HP	DC Power Supply, 30,000W, 0-750V, 0-120A		
DCB1000-80HP	DC Power Supply, 30,000W, 0-1000V, 0-80A		
DCB1500-60HP	DC Power Supply, 30,000W, 0-1500V, 0-60A		
DCB2000-40HP	DC Power Supply, 30,000W, 0-2000V, 0-40A		

OPTIONS

OPTIONS	DESCRIPTION	OPTIONS	DESCRIPTION
OPT-232	RS232 Serial Interface	OPT-ETH2P	Ethernet/IP 2 Port Interface
OPT-PBUS	Profibus DPV1- Interface	OPT-PNET1P	Profinet-IO 1 Port Interface
OPT-CANO	CANopen Interface	OPT-PNET2P	Profinet-IO 2 Port Interface
OPT-DNET	DeviceNet Interface	OPT-CAN	CAN Interface
OPT-MBUS1P	Modbus-TCP 1 Port Interface	OPT-ECT	EtherCAT Interface
OPT-MBUS2P	Modbus-TCP 2 Port Interface	Opt-RCT	Redundant Contactors
OPT-ETH1P	Ethernet/IP 1 Port Interface (Standard on 4U, 30kW Models)		

Model Number Encoder

Use the encoder shown on the right to configure the model number.



HIGH POWER DC POWER CABINET SYSTEMS

For DC power test applications ranging from 90kW to 1.92MW, Adaptive Power Systems offers integrated cabinet systems using paralleled DC power supplies or regenerative DC loads. The systems contain all AC input power wiring and output wiring or bus bars to create turn-key high power DC power systems and loads.

Cabinets heights of 15U, 24U, 38U or 48U are offered to accommodate up to 120kW in a 24U cabinet or up to 240kW in a 42U cabinet. All cabinets are made using 15kW or 30kW master units in parallel with slave units. The masters controls the entire system for ease of operation. All individual units are 19" rack mount.

Power connections, share bus and master/slave cabling between paralleled cabinets are included with Multi-cabinet systems.



2500W & 5000 Watt Models 750V Max.



5000W & 10000 Watt Models 1500V Max.



7500W & 15000 Watt Models 2000V Max.



15000Watt 208Vac input & 30000 Watt 400-480Vac input Models 2000V Max.

Service and Support

Adaptive Power Systems' customer support is second to none. Our Customer Support Program provides the training, repair, calibration, and technical support services that our customers value. So, in addition to receiving the right test equipment, our customers can also count on excellent support before, during and after the sale. With company owned support and service centers around the world, support is never far away.

New Product Warranty: Two (2) years.

Complete calibration and repair services are offered at our US, European and Chinese manufacturing facilities (see contact info below). Calibrations are to original factory specifications and are traceable to NIST (National Institute of Standards and Technology).

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