

ABC-600 / ABC-600 CE

High Voltage Dual Channel Cycling Station



Designed for higher voltage testing

Webasto Charging Systems, Inc. ABC-600/600CE* is a high voltage cycling station that was originally developed to meet specific customer requirements. This system is ideal for testing hybrid vehicles and high voltage drivetrains, motors and energy storage devices. The ABC-600 offers power up to 150kW, with a voltage range of 8 to 600VDC and a current range of ± 600 ADC.

Key Features:

- 99% Power Factor
- Energy Returned to the Grid at 92+% Efficiency
- Dual Independently Controlled Channels
- Analog Control Signal
- Automatic Shutdown on Loss of Power (Anti-Islanding)
- Independent Channel Interlock
- Load Disconnect Protection (camlock model only)
- Easy Front Panel Connections
- Emergency Stop Button
- Flexible DC Supply or Load Capabilities
- Fully Programmable Computer Control
- Multiple Control Interfaces/Options: Manual, Remote Operating System (ROS) Software, LabView, CAN and 3rd Party Control Software
- Remote Voltage Sense
- Bi-Directional Load Capability

Technical Specifications

	ABC-600	ABC-600CE
Input Voltage Options	3 Phase, 380, 440 and 480 VAC	3 Phase, 400 and 415 VAC
Current Draw	254, 218 and 200 Amps respectively	240 and 232 Amps respectively
Frequency	60Hz (50 Hz available)	50Hz (60 Hz optional)
Isolation transformer	Internal transformer	Internal transformer
Power factor	> 99%	> 99%
Harmonic distortion	< 3% THD; IEEE 519 Compliant	< 3% THD; IEEE 519 Compliant
Multiple User Interfaces	Manual; Remote Operation System (ROS); DCOM Driver for LabVIEW; C++ and Visual Basic; CAN	Manual; Remote Operation System (ROS); DCOM Driver for LabVIEW; C++ and Visual Basic; CAN
Current Ripple - Independent & parallel mode	< 65mArms and 130mArms, respectively	< 65mArms and 130mArms, respectively
Current Ripple - Max ripple from load	< 15Arms	< 15Arms
Operating Environment - Temperature	0-35°C	0-35°C
Operating Environment - Humidity	5-90% non-condensing	5-90% non-condensing
Weight	2-power stages 4055 lbs (1839 kg)	2-power stages 4055 lbs (1839 kg)
Dimensions	73" W x 76.5" H x 37" D (185cm W x 194cm H x 94cm D)	73" W x 76.5" H x 40" D (183cm W x 194cm H x 102cm D)



Operating Range

Configuration	Voltage (Vdc)	Current (A dc)	Power (kW)
Independent	+8 to +600	-300 to +300	-150 to +150
Parallel	+8 to +600	-600 to +600	-150 to +150

Accuracy & Resolution

Measurement	Accuracy (\pm)	Resolution
Voltage	250mV or 0.15% of the output voltage	50mV
Current Independent (2 channels)	250mA or 0.25% of the reading	20mA
Current External Parallel (1 channels)	450mA or 0.35% of the reading	40mA