



Burn-in & Plating Applications

KEY FEATURES

- Voltage range: 1 ~ 150V
- Current range: 0 ~ 2000A (System)
- Power range: 1.5kW per module up to 120kW per system
- N+1 Redundancy
- High Power Density
(464 mW / cm³ = 7.13 W/In³)
- Hot-swappable
- Ideal for Burn-in & Plating
- Remote Sense
- Remote ON / OFF
- CAN BUS Control
- DC OK Signal Output

Chroma's new 62000B series of Modular DC Power Supplies offer many unique features for Burn-in and plating applications. The features include a N+1 redundancy, high power densities, hot-swappable maintenance, remote ON/OFF and programmable control via the CAN BUS.

The 62000B family offers 5 types of power module with ranging from 1V to 150V, current from 10A to 90A, and offers two mainframe type of six and three position. The six position mainframe can envelop in up to six power modules paralleled operation for 9KW power output. The 62000B can easily parallel up to fourteen mainframe to 120KW with current sharing and CAN BUS control for bulk power applications.

The Modular DC Power Supplies of 62000B are very cost effective with high power density and low current ripple. These instruments have been designed for burn-in applications such as the LCD panels, DC-DC converters, power inverters, notebook computers, battery chargers and many other types of electronic devices.

Modern power factor correction circuitry is incorporated in 62000B providing an input power factor above 0.98 to meet the IEC requirements. This PFC correction circuitry not only reduces the input current but also raises the operating efficiency to over 80%. Optional graphic SoftPanels and CAN BUS control allow for control and monitoring of the power system using an easy to use graphical interface.

Hot-swap Operation

Equipped with the functionality of N+1 redundancy and hot-swap, the 62000B Series of modular DC power supplies are most applicable for 24 hours non-stop applications such as the SMD plating production lines, as well as product life burn-in test for IT products like DC converters, LCD backlight inverters and routers.

For continuous operation applications the modular hot-swap design allows engineers to replace the failure unit on-site without shutting down the entire system.



High Power Applications with CSU

The 62000B modular power supplies are capable of providing high power output up to 120KW/2000A with minimum specification degradation via CSU(Control & Supervisor Unit). Each chassis is designed to accommodate a maximum of 9KW and include current sharing capability to ensure system stability. In addition, for convenient control of even large power systems, a Control & Supervisor unit is provided to set and display output and protection circuits via a standard CAN BUS communication protocol.



Control & Supervisor Unit



Customized Power Solution

ORDERING INFORMATION

- 62000B-3-1** : Three Position 62000B Mainframe
- 62000B-6-1** : Six Position 62000B Mainframe
- 62015B-15-90** : DC Power Supply Module, 15V/90A/1350W
- 62015B-30-50** : DC Power Supply Module, 30V/50A/1500W
- 62015B-60-25** : DC Power Supply Module, 60V/25A/1500W
- 62015B-80-18** : DC Power Supply Module, 80V/18A/1440W
- 62015B-150-10** : DC Power Supply Module, 150V/10A/1500W
- A620007** : Control & Supervisor Unit
- A620008** : CAN BUS Interface for mainframe
- A620010** : Rack Mounting Kit for mainframe
- A620011** : Ethernet Interface for CSU
- A620012** : AD-Link PCI 7841 CAN BUS Card
- A620013** : 19" Rack (23U) for 62000B Series
- A620014** : 19" Rack (41U) for 62000B Series
- A620016** : Rack Mounting Kit for CSU
- A620017** : Softpanel for 62000B Series
- A620018** : NI USB-8473 high-speed USB to CAN interface
- A620019** : USB Interface Control Box for mainframe & CSU
- A620020** : GPIB Interface Control Box for mainframe & CSU
- A620021** : Analog Interface Control Box for mainframe & CSU
- A620022** : RS-485 Interface Control Box mainframe & CSU

AVAILABLE POWER RATINGS

Voltage Rating	Current Rating	Power Rating	9KW	18KW	27KW	36KW	45KW
			15V	540A	1080A	1620A	2160A
30V	300A	600A	900A	1200A	1500A		
60V	150A	300A	450A	600A	750A		
80V	108A	216A	324A	432A	540A		
150V	60A	120A	180A	240A	300A		

Paralleled unit of mainframe	1	2	3	4	5

Note : Call for more information on customization of high power system (>2000A)



Softpanel for Model 62000B Series

SPECIFICATIONS					
Model	62015B-15-90	62015B-30-50	62015B-60-25	62015B-80-18	62015B-150-10
Electrical Specifications					
Output Ratings					
Output Power	1350W	1500W	1500W	1440W	1500W
Output Voltage	1~15V	1~30V	1~60V	1~80V	1~150V
Output Current	1~90A	1~50A	1~25A	1~18A	1~10A
Line Regulation	0.1% F.S.				
Load Regulation *1	1% F.S.				
Programming Accuracy	1% F.S.				
Measurement Accuracy	1% F.S.				
Output Noise (20MHz)					
Voltage Noise (P-P)	100mV	100mV	200mV	200mV	400mV
Voltage Ripple (rms)	30mV	30mV	50mV	50mV	100mV
Current Ripple (rms)	0.9A	0.5A	0.25A	0.18A	0.1A
Efficiency	> 87% @ full load		> 88% @ full load		
Turn on over shoot voltage *2	5% of nominal output				
Transient Response Time *3	< 5 ms				
AC Input Voltage					
Six Position Mainframe	187 ~ 250 Vac (3 Phase 4 Wire, Δ Connection) or 323 ~ 437 Vac (3 Phase 5 Wire, Y Connection) / 45 ~ 65 Hz				
Three Position Mainframe	187 to 250 Vac (single phase) / 45 ~ 65 Hz				
Input Power Factor	> 0.98@ full load				
Protection Function					
OVP	Automatically shuts down at 115% of set value				
Adjustment Range	1~16V	1~31V	1~65V	1~83V	1~155V
OCP	Current limit (0 ~ 100%) / OCP Shutdown at 115% of F.S.				
OTP	Automatically shuts down if internal limit is reached				
I/O Signal					
Remote ON/OFF (I/P)	Dry contact (closed = enabled), vice versa				
AUX Voltage	4 ~ 24V / 0.5A at mainframe (by trimmer adjust voltage)				
DC OK Signal Type (O/P)	Dry contact (closed = enabled) (Error : OVP / OCP / OTP / AC Fault)				
Programming Response Time *4 (Typical)					
Rise Time (Full Load)	For a programmed 5% to 95% step in output voltage : 100ms				
Rise Time (No Load)	For a programmed 5% to 95% step in output voltage : 100ms				
Fall Time (Full Load)	For a programmed 95% to 5% step in output voltage : 40ms				
Fall Time (No Load)	For a programmed 95% to 5% step in output voltage : 5s				
Vout Setting	CAN BUS send command to DC module receiver : 1s				
Measurement V & I	Under CAN command using fetch : 100ms				
Delay Time	For output ON/OFF enable and disable (under CAN command) : 5s(Single Mainframe)				
General Specifications					
Remote Sensing	3V max. line loss compensation				
Parallel Operation	Current Sharing ($\pm 5\%$)				
Operating Temperature	0 ~ 50°C				
Humidity Range	0 ~ 90% RH. Non-condensing				
Remote Interface	CAN BUS (optional)				
Safety & EMC	CE				
Dimension (H x W x D)	Mainframe : 175.6 x 443.9 x 466.2 mm / 6.91 x 17.48 x 18.35 inch (62000B-6-1) Mainframe : 175.6 x 239.9 x 466.2 mm / 6.91 x 9.44 x 18.35 inch (62000B-3-1) Module : 138.5 x 67.5 x 377.5 mm / 5.45 x 2.66 x 14.86 inch				
Weight	Mainframe : 14 Kg / 30.8 lbs (62000B-6-1) Mainframe : 8 Kg / 17.6 lbs (62000B-3-1) Module : 4 Kg / 8.8 lbs				

Note*1 : For 50% step load variation with remote sense at maximum output voltage

Note*2 : based on rise time of 100ms

Note*3 : Time for the output voltage to recover within 1% of its rated for a load changed of 25%

Note*4 : Six Position Mainframe through CAN

 Photovoltaic
Test Equipment

 Semiconductor/C
Test Equipment

 LED
Test Equipment

 LCD/LCM
Test Equipment

 Video & Color
Test Equipment

 Optical Inspection
Equipment

 Power Electronics
Test Equipment

 Passive Component
Test Instruments

 Electrical Safety
Test Instruments

 General Purpose
Test Instruments

 PXI Instruments
& Systems