

Ordering Guide

Compact Power Systems



V-Series Family

2052286 R1

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1303 E Arapaho Rd
Richardson, TX 75081
USA

Phone: +1 (469) 330-9100

Fax: +1 (469) 330-9101

Sales Support

+1 (469) 330-1592

sales.us@eltekvalere.com

Technical Support

+1 (866) 240-6614

www.eltekvalere.com

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1. Compact Power System Description

The Compact Power System consists of several configurable components, plug-in modules, and associated accessories that are designed to seamlessly work together. These items include:

- Compact Power Shelf
- V-Series Rectifiers
- BC Series Controller
- Line Cord(s)
- Alarm Cable
- Temperature Probe(s)
- Circuit Breaker(s) and Fuse(s)

Each of these is described in the following sections.

Compact System Shelf Concept

The distribution section is expandable:

- Zero Slot Distribution: maximum power, minimal distribution
- Single Slot Distribution: expanded distribution, up to four rectifiers
- Double Slot Distribution: expanded distribution, up to three rectifiers

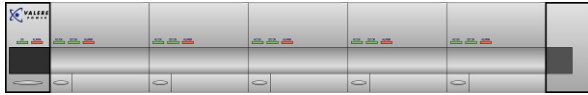




23" Systems	19" Systems
 <p>Zero Slot Distribution – up to 5 rectifiers</p>	 <p>Zero Slot Distribution – up to 4 rectifiers</p>
 <p>Single Slot Distribution – up to 4 rectifiers</p>	 <p>Single Slot Distribution – up to 3 rectifiers</p>
 <p>Double Slot Distribution – up to 3 rectifiers</p>	

Figure 1 - 23" systems and 19" systems

DC distribution options are accomplished by varying the relative size of the DC distribution slot (or compartment). In addition to width and DC distribution type, considerations such as mounting locations and wire direction are also important when choosing the correct configuration.

Shelf Family Letter Codes

System	Shelf	Distribution Type	Maximum Rectifiers	Wire Direction	System Depth	AC Option*
A	23" mid mount	Zero	5	Rear	15"	S**/D/I
C	23" mid mount	Single	4	Rear	15"	S/D
Q	23" mid mount	Single	4	Front	12"	D
D	23" mid mount	Double	3	Front	12"	S/D/I
G	19" mid mount	Zero	4	Rear	15"	D
L	19" flush mount	Zero	4	Rear	15"	S/D/I
I	19" mid mount	Single	3	Front	12"	S/D/I
K	19" mid mount	Single	3	Rear	15"	D/I
P	19" flush mount	Single	3	Rear	15"	S/D
M	19" flush mount	Zero	5	Rear	15"	J

* AC options: S=Single, D=Dual, I=Individual, J=20A Individual
 ** A-shelf, single AC feed is connected to a double-stud landing with ¼"-20 studs and 5/8" centers

Table 1 - Shelf family letter codes

The key attributes of primary telecom shelves are listed in the table. Note that only certain DC output configurations (or circuits) are compatible with each shelf family.

Shelf Configuration Options

The following circuit diagrams describe the available DC output distribution configurations. Circuit breaker (CB) connection points are rated up to 100 A each and fuse connection points are GMT style, rated up to 15 A each. Circuit diagrams show available connection points for fuses, breakers, and ringers. Actual devices are ordered separately. LVD is always optional; the circuit diagrams below indicate the position of the optional LVD and/or shunt. Circuit breaker connection points also accept a bus bar strap (CBB000) option.

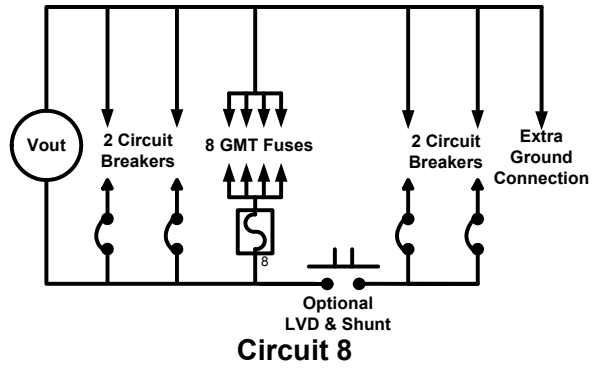
CD shelves
 23in Front AC and DC Wire Direction
 Mid-Mount
 3 Rectifier Slots



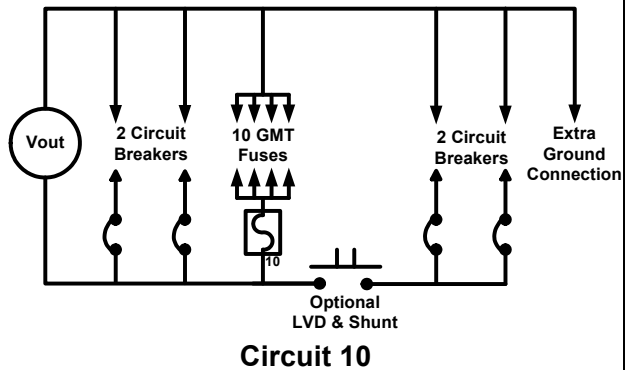
CDxD and CDxS use LM Line Cord
 CDxI use LI Line Cord

Distribution ¼-20 studs, 5/8" spaced,
 double-hole pattern

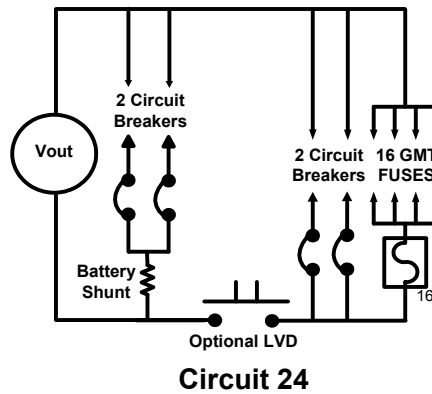
CD8D-ANN-VC



CD10D-ANN-VC
 CD10D-ANL-VC
 CD10S-ANL-VC



CD24I-ANL-VV
 CD24S-ANL-VV

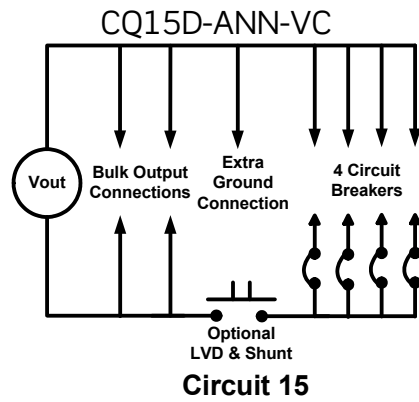


CQ shelves
 23in Front AC and DC Wire Direction
 Mid-Mount
 4 Rectifier Slots



Use LM Line Cord

Distribution ¼-20 studs, 5/8" spaced,
 double-hole pattern

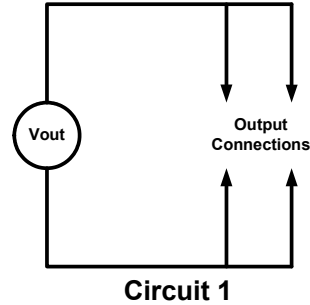


CA shelves
 23in Rear AC and DC Wire Direction
 Mid-Mount
 5 Rectifier Slots



CAXD and CAXI use LI Line Cord
 CAXS use LD Line Cord

CA1D-AUN-VC
 CA1S-AUN-VV
 CA1I-AUN-VV

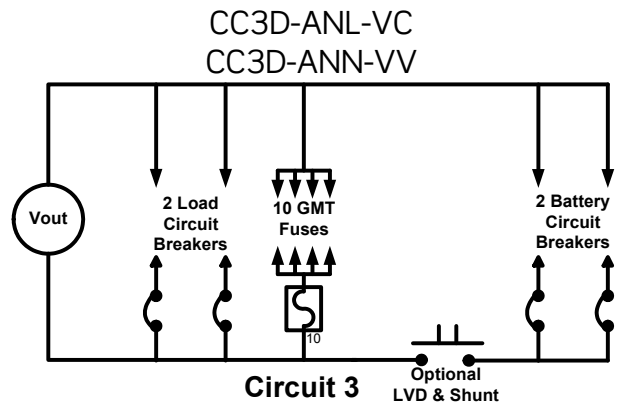
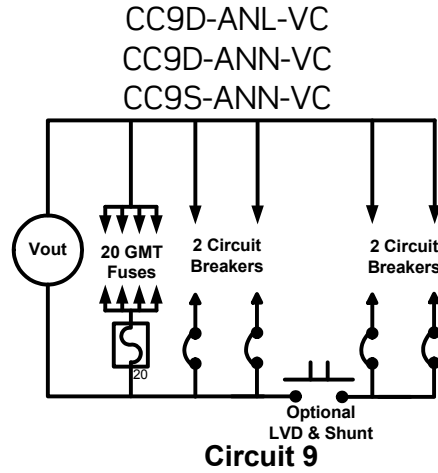


CC shelves
 23in Rear AC and DC Wire Direction
 Mid-Mount
 4 Rectifier Slots

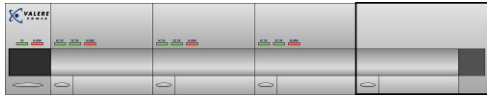


Use LL Line Cord

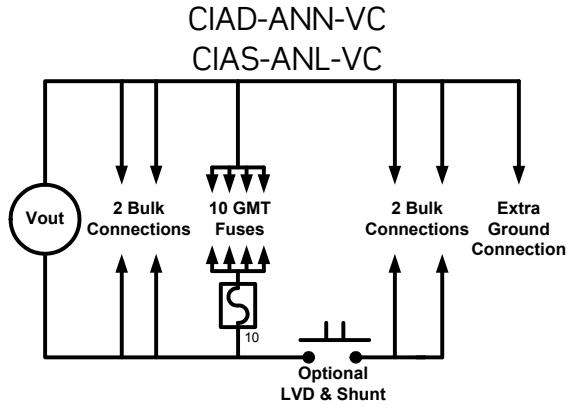
Distribution uses 1/4-20 studs, 5/8" spaced, DH pattern



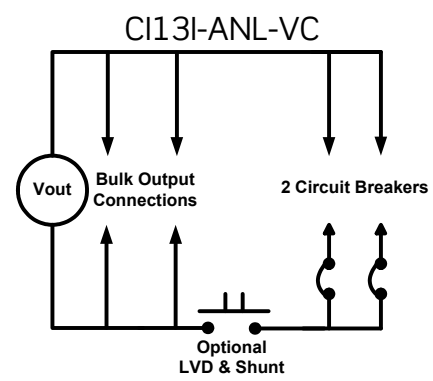
CI shelves
 19in Front AC and DC Wire Direction
 Mid-Mount
 3 Rectifier Slots



Circuit A (CIAX) uses LM Line Cord
 Circuit 13 (CI13x) uses LI Line Cord



Circuit A

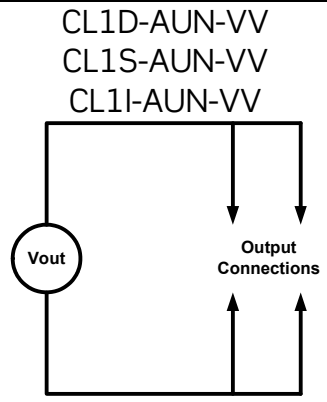


Circuit 13

CL shelves
 19in Rear AC and DC Wire Direction
 Flush Mount
 4 Rectifier Slots



Use LL Line Cord

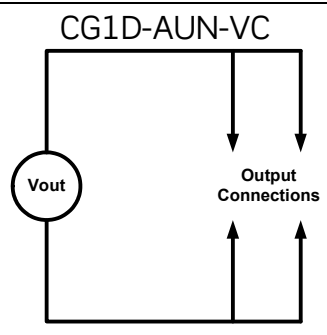


Circuit 1

CG shelves
 19in Rear AC and DC Wire Direction
 Mid Mount
 4 Rectifier Slots



Use LL Line Cord

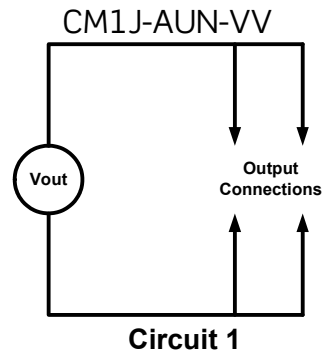


Circuit 1

CM shelf
 19in Rear AC and DC Wire Direction
 Mid Mount, Horizontal Airflow
 5 Rectifier Slots (No Controller)



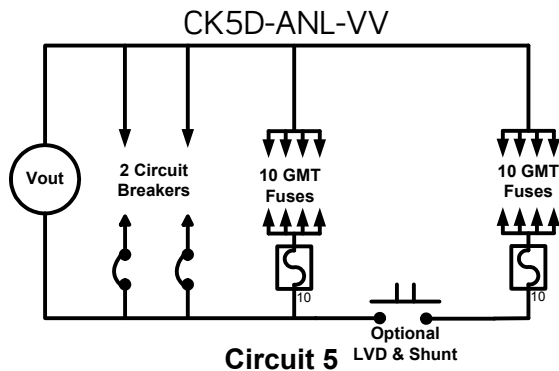
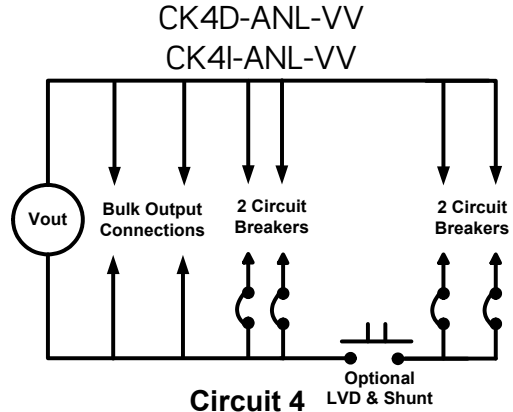
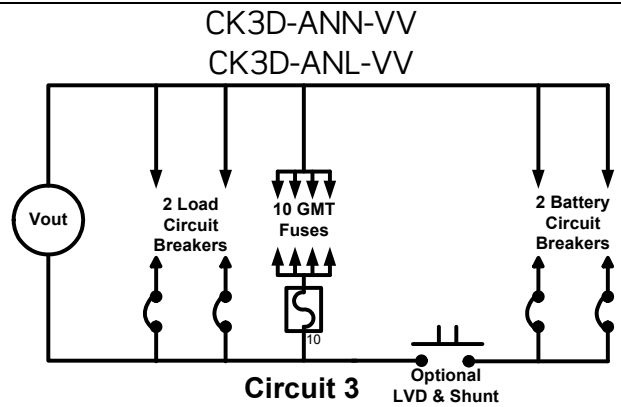
Use **LJ1012-UU** Line Cord



CK Shelves
 19in Rear AC and DC Wire Direction
 Mid-Mount
 3 Rectifier Slots



Use LL Line Cord



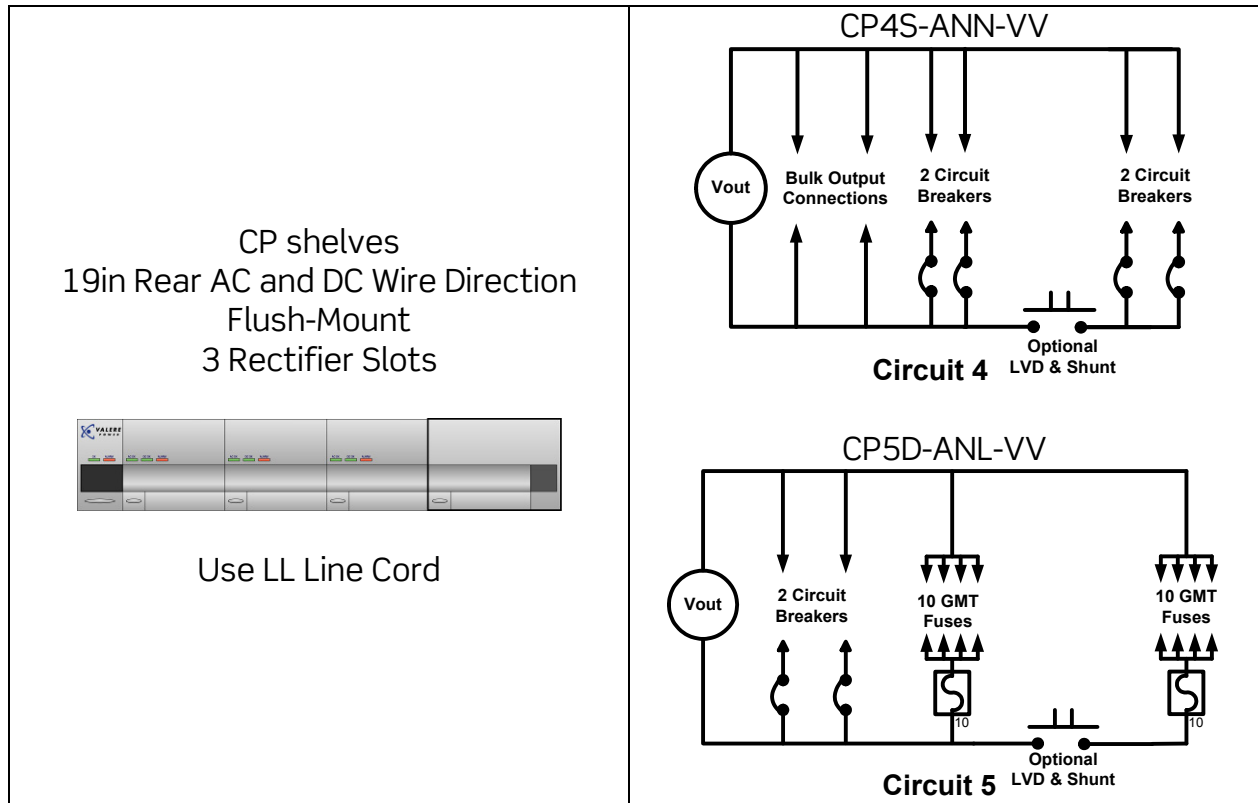


Figure 2 - Circuit diagrams

V-Series Rectifiers

The following table lists specifications of rectifier models that are currently available:

Model	Voltage	Current	AC Input	Temperature
VBLANK	N/A	N/A	N/A	N/A
V0500A	48V	10 amps	90-264 VAC	-40 to +75C
V0750A	48V	15 amps	90-264-VAC	-40 to +75C
V1000A	48V	20 amps	90-264 VAC	-40 to +75C
V1250A	48V	25 amps	90-264 VAC	-40 to +75C
V1500A	48V	30 amps	180-264 VAC	-40 to +75C
V2000A	48V	40 amps	180-264 VAC	-40 to +75C
V2500A	48V	50 amps	180-264 VAC	-40 to +65C
V1500B	24V	60 amps	180-264 VAC	-40 to +75C

Table 2 - V-series rectifiers

NOTE: Product marking characters are not shown in the table above.

BC-Series Controller Part Numbers

Model	Description
BC2000-A01-10VV	Next-generation controller
BC1000-A01-10VC	Basic controller with Ethernet
BC500-A01-10VC	Basic controller

Table 3 - BC-series ontrroller models



Figure 3 - BC-Series controllers

BC-Series System Controller Profile Settings

The BC-series controller has many adjustable system operating parameters that provide tremendous flexibility in managing a variety of applications. These operating parameters are field adjustable to a specific set of values. Up to three presets or “setting registers” may be stored to make future system adjustments easy. Each profile is given a two-digit identifier. The 01 profile is the standard Eltek Valere parameter set that provides safe system operation. The following tables list some of the system operating parameters and provide an example of register usage by assigning a specific operational setting to match three different battery types.

Sample Operating Parameters

Parameter	Description	Nominal Voltage	
		48V	24V
Float Voltage	The voltage to which the rectifiers will regulate the plant during float mode	54	27
HVSD Setpoint	The controller will shut down the rectifiers if the plant voltage exceeds this setpoint	58	29
HVA Setpoint	The controller will issue a High Voltage Alarm if the plant voltage exceeds this setpoint	57	28.25
BOD Alarm	The controller will issue a Battery-On-Discharge alarm if the plant voltage falls below this setpoint	48	24
LVD Warning (All)	The controller will issue a Low Voltage Disconnect Warning if the plant voltage falls below this setpoint	44	22
LVD 1 Open	The system LVD contactor will open if the plant voltage falls below this setpoint	42	21
LVD 1 Reconnect	The system LVD contactor will reconnect if the plant voltage exceeds this setpoint	50	25
LVD 1 Reconnect Delay Time	The amount of time that the plant voltage must exceed the LVD reconnect setpoint prior to reconnecting the LVD contactor	20	20
T Comp Enable	Enables thermal compensation	Disabled	Disabled
Temperature Units	Select either degrees C or F	C	C
Hi Temp Thermal Comp Start Temp	The controller begins to reduce the float voltage when the highest measured battery temperature reaches this value	35	35
Hi Temp Thermal Slope	If battery temperature is above the start temperature, the controller will linearly reduce the plant voltage by this slope	72	36
Hi Temp Thermal Comp Stop Voltage	The minimum voltage to which the controller will reduce plant voltage for thermal compensation	50.5	25.25
Lo Temp Thermal Comp Start Temp	The controller begins to increase the float voltage when the lowest measured battery temperature reaches this value	-20	-20
Lo Temp Thermal Slope	If battery temperature is below the start temperature, the controller will linearly increase the plant voltage by this slope	0	0
Lo Temp Thermal Comp Stop Voltage	The maximum voltage to which the controller will raise plant voltage for thermal compensation	56	28
Thermal Sense	Selects temperature sensing device to use for battery temperature compensation; Internal sensor or External temp probes.	External	External
Thermal Runaway Clamp Temperature	The temperature at which the controller will reduce the Float Voltage to Runaway Clamp Voltage	60	60
Thermal Runaway Clamp Voltage	The Float Voltage to which the controller will reduce for temperatures above Runaway Clamp Voltage	50	25
Communication Alarm	A minor alarm is set if any rectifier either stops communicating or is removed from the shelf. User action is required to clear the alarm	Disabled	Disabled
Current Share Alarm	A minor alarm is set if the output current of any rectifier exceeds current sharing tolerances	Enabled	Enabled
Redundancy Alarm	A minor alarm is set if the number of installed rectifiers will not support N+1 redundancy required by the load	Disabled	Disabled

Table 4 -Operating parameters (sample only)

Sample Alarm Mapping

	Alarm	Relay Designation						Severity	
		A	B	C	D	E	F		
	Major	X							
	Minor		X						
System Generated	AC Fail			X					
	High Voltage Warning	X						X	
	High Voltage Shut Down	X						X	
	Battery on Discharge	X			X			X	
	LVD Warning		X						X
	LVD Open	X				X		X	
	Distribution Open		X				X		X
	Redundant Capacity		X						X
	Current Share		X						X
	Single Rectifier Failure		X						X
	Multiple Rectifier Failure	X						X	
	System Communication		X						X
	High Temperature		X						X
	Auxiliary Alarms External Input to Shelf	Office Alarm		X					
Temperature Alarm 1			X						
Temperature Alarm 2			X						
Temperature Alarm 3			X						

Table 5 - Sample alarm mapping

Line Cords

Examples only; more options available

Part #	Description
LL1008-UU	Line Cord, 10', 8 AWG, Ring Terminal to Unterminated
LM1008-UU	Line Cord, 10', 8 AWG, Molex Connector to Unterminated
LL1010-UU	Line Cord, 10', 10 AWG, Ring Terminal to Unterminated
LM1010-UU	Line Cord, 10', 10 AWG, Molex Connector to Unterminated
LL1010-L530P	Line Cord, 10', 10 AWG, Ring Terminal to NEMA L5-30P, 120 V AC, 30 A Locking Plug
LL1010-L630P	Line Cord, 10', 10 AWG, Ring Terminal to NEMA L6-30P, 240 V AC, 30 A Locking Plug
LM1010-L530P	Line Cord, 10', 10 AWG, Molex Connector to NEMA L5-30P, 120 V AC, 30 A Locking Plug
LM1010-L630P	Line Cord, 10', 10 AWG, Molex Connector to NEMA L6-30P, 240 V AC, 30 A Locking Plug
LM1010-N530P	Line Cord, 10', 10 AWG, Molex Connector to NEMA 5-30P, 120 V AC, 30 A Non-locking Plug
LM1012-N515P	Line Cord, 10', 12 AWG, Molex Connector to NEMA 5-30P, 120 V AC, 15 A Non-locking Plug
LL2008-UU	Line Cord, 20', 8 AWG, Ring Terminal to Unterminated
LM2008-UU	Line Cord, 20', 8 AWG, Molex Connector to Unterminated
LL2010-UU	Line Cord, 20', 10 AWG, Ring Terminal to Unterminated
LM2010-UU	Line Cord, 20', 10 AWG, Molex Connector to Unterminated
LL2010-L530P	Line Cord, 20', 10 AWG, Ring Terminal to NEMA L5-30P, 120 V AC, 30 A Locking Plug
LM2010-L630P	Line Cord, 20', 10 AWG, Molex Connector to NEMA L6-30P, 240 V AC, 30 A Locking Plug

Table 6 - Line cords

The CM shelf uses cord **LJ1012-UU**:

- 10', 12 AWG, IEC320-C19 Connector to Unterminated

NOTES ON WIRE SIZES:

LL type cords accept 14 AWG through 6 AWG wire sizes

LM type cords accept 12 AWG through 8 AWG wire sizes

LD type cords accept 8 AWG through 4 AWG wire sizes

Shelf Connection	Description	Available Shelf Family
LL	Line cord with lugs	A, C, G, K, L, P
LM	Line cord with Molex connector	D, I, Q
LD	Line cord with double-hole lugs	A (single feed option)
LI	Line cord with 15A IEC connector	D, I (individual feed option)
LJ	Line cord with 20A IEC connector	M

Table 7 - Shelf family

LL Type

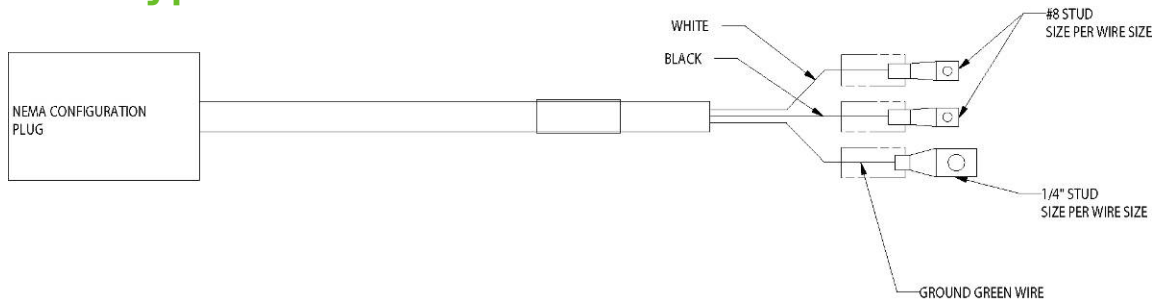


Figure 4 - LL type

LM Type

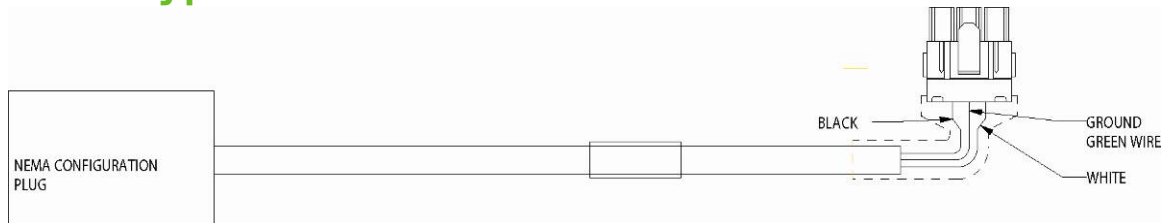


Figure 5 - LM type

LD Type

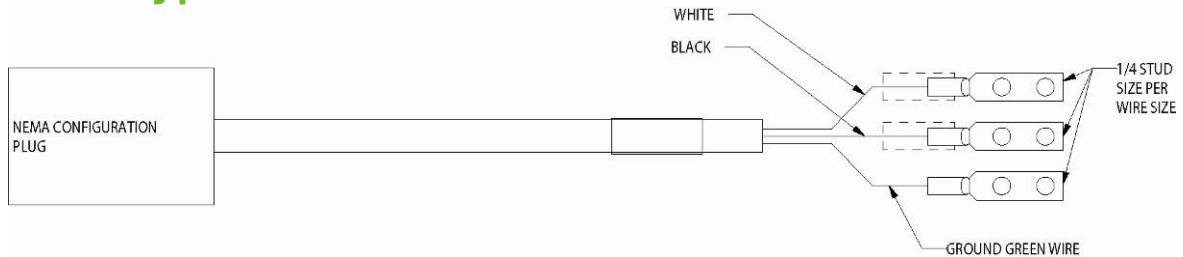


Figure 6 - LD type

LI Type

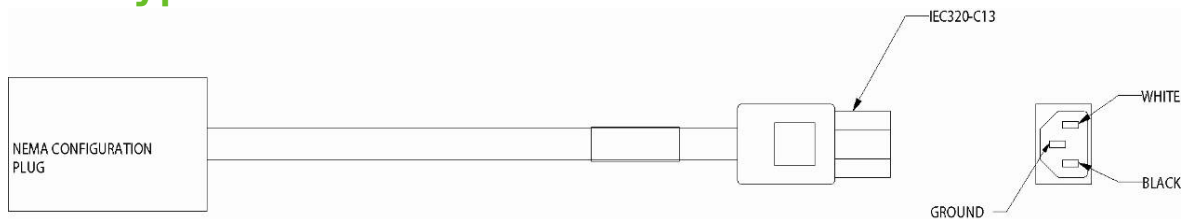


Figure 7 - LI type

NEMA Plugs

WXYZ (example: L650P)

W - Locking (L) or Non-locking (N)

X - 5 is for 3-wire, low-line AC; 6 is for 3-wire, high-line AC; 14 is for 4-wire, high-line AC

Y - Current rating of plug from 15 A to 50 A (see available plugs below)

Z - Plug (P)

Non-locking Plugs

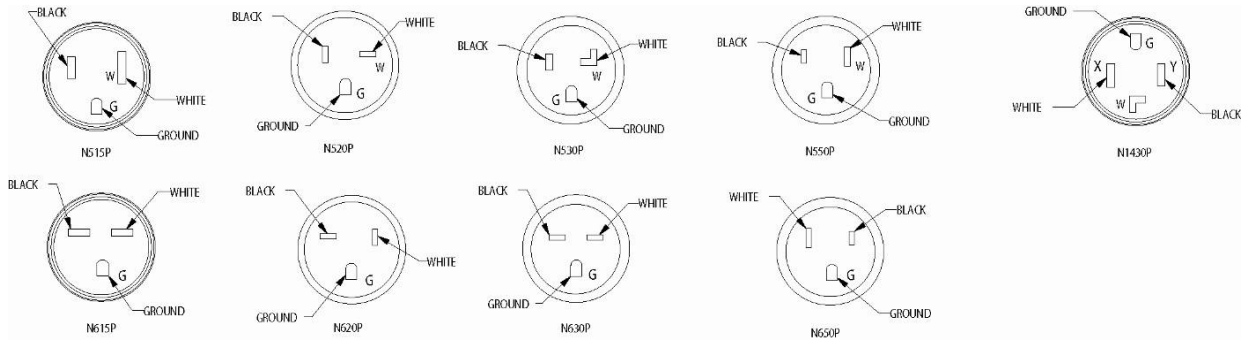


Figure 8 - Non-locking plugs

Locking Plugs

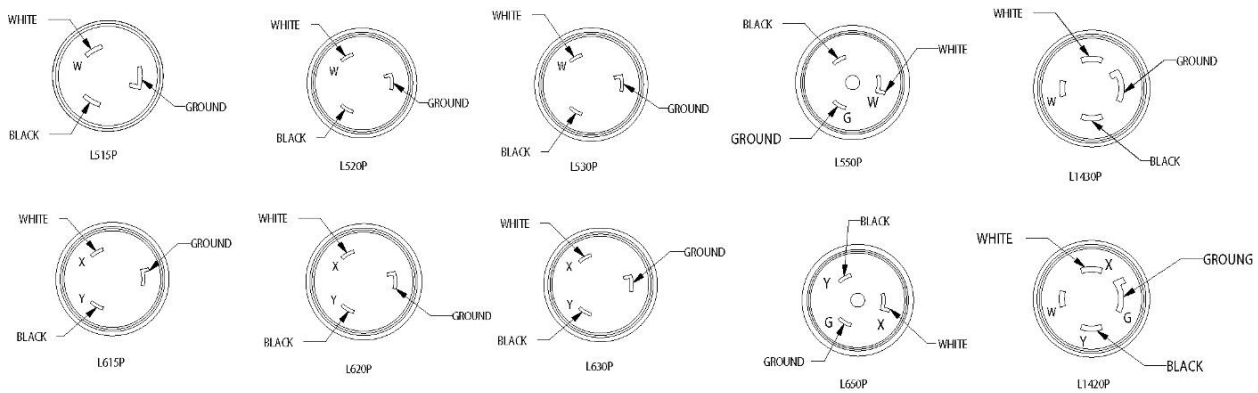


Figure 9 - Locking plugs

Alarm Cables

Three standard length (10', 50', and 100') alarm cables are available for use with Compact DC Power Systems. The functionalities of cables are identical. Since the variability of these cables is low, part numbers do not have any set convention. Longer lengths are available upon request.

Part #	Description
CA210203104	Alarm Cable – Solid Wire, 10'
CA210203105	Alarm Cable – Solid Wire, 50'
CA210203106	Alarm Cable – Solid Wire, 100'

Table 8 - Alarm cables

Temperature Probes

Temperature probes are available in three styles, 1/4" ring terminal, 5/16" ring terminal, and paddle terminal, and in two lengths, 10' and 20'. Longer lengths are available upon request.

Part #	Description
TPR10	Thermal Probe, 1/4" Ring Terminal, 10'
TPR20	Thermal Probe, 1/4" Ring Terminal, 20'
TPL10	Thermal Probe, 5/16" Ring Terminal, 10'
TPL20	Thermal Probe, 5/16" Ring Terminal, 20'
TPP10	Thermal Probe, Paddle Terminal, 10'
TPP20	Thermal Probe, Paddle Terminal, 20'

Table 9 - Temperature probes

Circuit Breakers

Part #	Description
CBB000	Strap for bridging circuit breaker position, Bullet Style
CBB005E	Circuit Breaker, Bullet Style, Single Pole, 5 A Electro-Mechanical Trip
CBB010E	Circuit Breaker, Bullet Style, Single Pole, 10 A Electro-Mechanical Trip
CBB020E	Circuit Breaker, Bullet Style, Single Pole, 20 A Electro-Mechanical Trip
CBB030E	Circuit Breaker, Bullet Style, Single Pole, 30 A Electro-Mechanical Trip
CBB040E	Circuit Breaker, Bullet Style, Single Pole, 40 A Electro-Mechanical Trip
CBB050E	Circuit Breaker, Bullet Style, Single Pole, 50 A Electro-Mechanical Trip
CBB060E	Circuit Breaker, Bullet Style, Single Pole, 60 A Electro-Mechanical Trip
CBB075E	Circuit Breaker, Bullet Style, Single Pole, 75 A Electro-Mechanical Trip
CBB080E	Circuit Breaker, Bullet Style, Single Pole, 80 A Electro-Mechanical Trip
CBB100E	Circuit Breaker, Bullet Style, Single Pole, 100 A Electro-Mechanical Trip
CBB005M	Circuit Breaker, Bullet Style, Single Pole, 5 A Mid-Trip
CBB010M	Circuit Breaker, Bullet Style, Single Pole, 10 A Mid-Trip
CBB020M	Circuit Breaker, Bullet Style, Single Pole, 20 A Mid-Trip
CBB030M	Circuit Breaker, Bullet Style, Single Pole, 30 A Mid-Trip
CBB040M	Circuit Breaker, Bullet Style, Single Pole, 40 A Mid-Trip
CBB050M	Circuit Breaker, Bullet Style, Single Pole, 50 A Mid-Trip
CBB060M	Circuit Breaker, Bullet Style, Single Pole, 60 A Mid-Trip
CBB075M	Circuit Breaker, Bullet Style, Single Pole, 75 A Mid-Trip
CBB080M	Circuit Breaker, Bullet Style, Single Pole, 80 A Mid-Trip
CBB100M	Circuit Breaker, Bullet Style, Single Pole, 100 A Mid-Trip

Table 10 - Circuit breakers

Fuses

Part #	Description
GMT0100	Fuse, GMT Style, 1 A
GMT0200	Fuse, GMT Style, 2 A
GMT0500	Fuse, GMT Style, 5 A
GMT0750	Fuse, GMT Style, 7.5 A
GMT1000	Fuse, GMT Style, 10 A
GMT1500	Fuse, GMT Style, 15 A
TPS005	Fuse, TPS Style, 5 A
TPS020	Fuse, TPS Style, 20 A
TPS050	Fuse, TPS Style, 50 A
TPS075	Fuse, TPS Style, 75 A
TPS090	Fuse, TPS Style, 90 A
TPS100	Fuse, TPS Style, 100 A
TPSB100	Fuse Holder, Bullet-Nose Terminal

Table 11 - Fuses

Each TPS fuse requires a bullet-nosed, plug-in fuse holder that fits into the bullet breaker positions. The part number is TPSB100 (see Table 11); it holds one TPS fuse, a 0.18A GMT indicator fuse, and takes up one bullet breaker position.

2. How to Order

To order a complete working system, select part numbers and quantity for the following items:

- Compact shelf (See appendix A for a list of available products.)
- V-Series rectifiers
- BC controller
- Line cords (Ensure that the quantity of line cords matches the number of AC shelf feeds.)
- Alarm cable (if desired)
- Temperature probes (if desired)
- Circuit breakers and fuses (if any)

How to Contact Eltek Valere

Eltek Valere Headquarters (Business hours are 8AM to 6PM Central US)	1-877-825-3731
Sales Support (sales.us@eltekvalere.com)	1-469-330-1592
24-Hour Tech Services Line	1-866-240-6614

Appendix A - Available Part Numbers

The following table lists all the currently available Compact Power Systems. Other combinations and configurations based on these guidelines can also be provided. Please consult Eltek Valere headquarters for availability and lead time.

Part Number	Nominal Voltage	Shelf Depth	Shelf Width	Front Offset	Rectifier Slots	AC Input Feeds	GMT	LVD/S hunt CB	Direct Bus CB	LVD/S hunt Bulk	Direct Bus Bulk	LVD/Shunt
CD10D-ANN-VC	-48	12"	23"	5"	3	2	10	0	4	0	0	--
CD10D-ANL-VC	-48	12"	23"	5"	3	2	10	2	2	0	0	LVD
CD10S-ANL-VC	-48	12"	23"	5"	3	1	10	2	2	0	0	LVD
CD8D-ANN-VC	-48	12"	23"	5"	3	2	8	0	4	0	0	--
CD24I-ANL-VV	-48	12"	23"	5"	3	3	16	2	2	0	0	LVD
CD24S-ANL-VV	-48	12"	23"	5"	3	1	16	2	2	0	0	LVD
CQ15D-ANN-VC	-48	12"	23"	5"	3	2	0	0	4	0	2	--
CA1D-AUN-VC	-48	15"	23"	5"	5	2	0	0	0	0	2	--
CA1S-AUN-VV	-48	15"	23"	5"	5	1	0	0	0	0	2	--
CA1I-AUN-VV	-48	15"	23"	5"	5	5	0	0	0	0	2	--
CC9D-ANN-VC	-48	15"	23"	5"	4	2	20	0	4	0	0	--
CC9D-ANL-VC	-48	15"	23"	5"	4	2	20	2	2	0	0	LVD
CC9S-ANN-VC	-48	15"	23"	5"	4	1	20	0	0	0	0	--
CC3D-ANL-VC	-48	15"	23"	5"	4	2	10	2	2	0	0	LVD
CC3D-ANN-VV	-48	15"	23"	5"	4	2	10	2	2	0	0	--
CIAD-ANN-VC	-48	12"	19"	5"	3	2	10	0	0	0	4	---
CIAS-ANL-VC	-48	12"	19"	5"	3	1	10	0	0	2	2	LVD
CI13I-ANL-VC	-48	12"	19"	5"	3	1	0	2	0	0	2	LVD
CL1D-AUN-VV	-48	15"	19"	0"	4	2	0	0	0	0	2	--
CL1S-AUN-VV	-48	15"	19"	0"	4	1	0	0	0	0	2	--
CL1I-AUN-VV	-48	15"	19"	0"	4	4	0	0	0	0	2	--
CG1D-AUN-VC	-48	15"	19"	5"	4	2	0	0	0	0	2	--
CM1J-AUN-VV	-48	15"+	19"	0"	5	5	0	0	0	0	2	--
CK3D-ANN-VV	-48	15"	19"	5"	3	2	10	0	4	0	0	--
CK3D-ANL-VV	-48	15"	19"	5"	3	2	10	2	2	0	0	LVD
CK4D-ANL-VV	-48	15"	19"	5"	3	2	0	2	2	0	2	LVD
CK4I-ANL-VV	-48	15"	19"	5"	3	3	0	2	2	0	2	LVD
CK5D-ANL-VV	-48	15"	19"	5"	3	2	20*	0	2	0	0	LVD
CP4S-ANN-VV	-48	15"	19"	0"	3	1	0	0	4	0	2	--
CP5D-ANL-VV	-48	15"	19"	0"	3	2	20*	0	2	0	0	LVD

*10 LVD GMT and 10 Direct Bus GMT
+3RU with Horizontal Airflow, no controller slot

Table 12 - Compact power systems

Appendix B - Part Numbering Conventions

The following table shows how to read the Compact Shelf Part Numbering conventions. Other configurations based on these guidelines may also be available. Please consult your Eltek Valere representative for availability and lead time.

Compact Shelf Part Numbering

The following part numbering convention can be used to identify compact shelves:

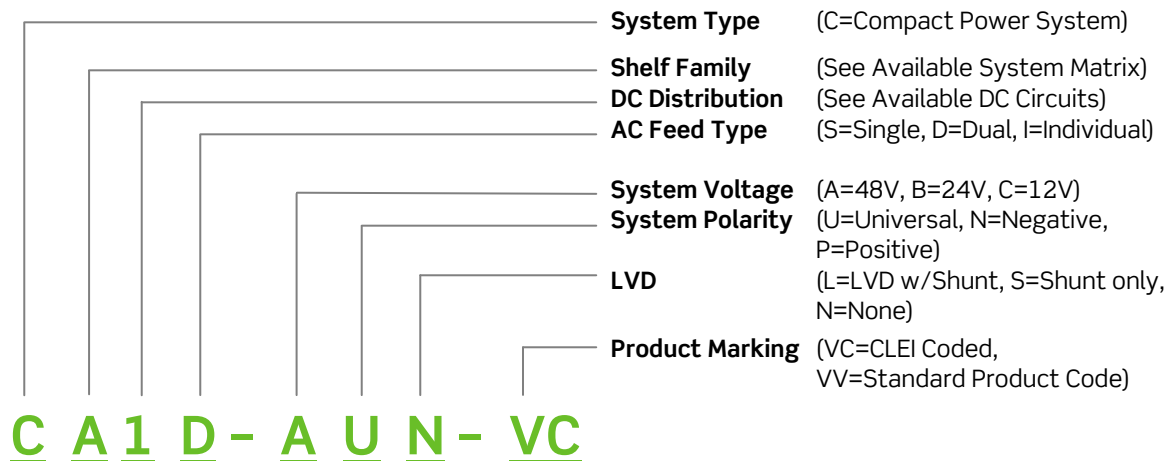


Figure 10 - Compact shelf part numbering

A combination of options is available for a wide variety of applications. Please contact your Eltek Valere sales representative for other application options.

BC-Series System Controller Part Numbering

The following naming convention can be used to identify controllers that work in the compact systems:

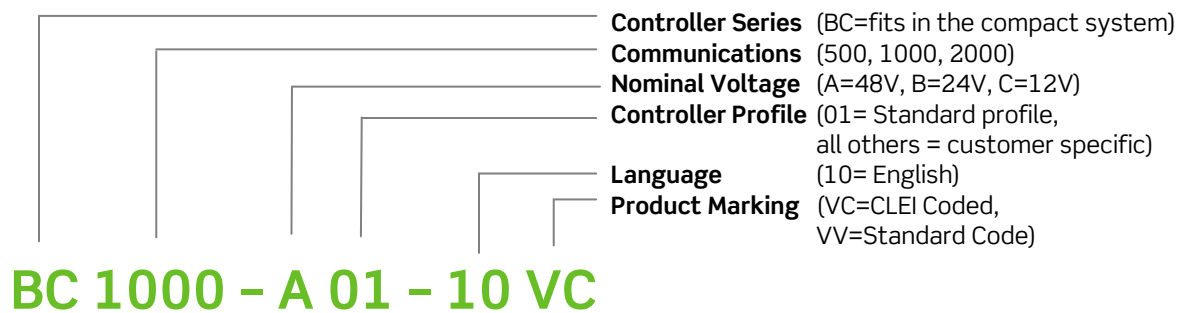


Figure 11- BC-Series controller part numbering

Line Cord Naming Convention

Refer to AC Cable drawing CA113002282 for more information.

Use the following naming convention to identify appropriate AC cables:

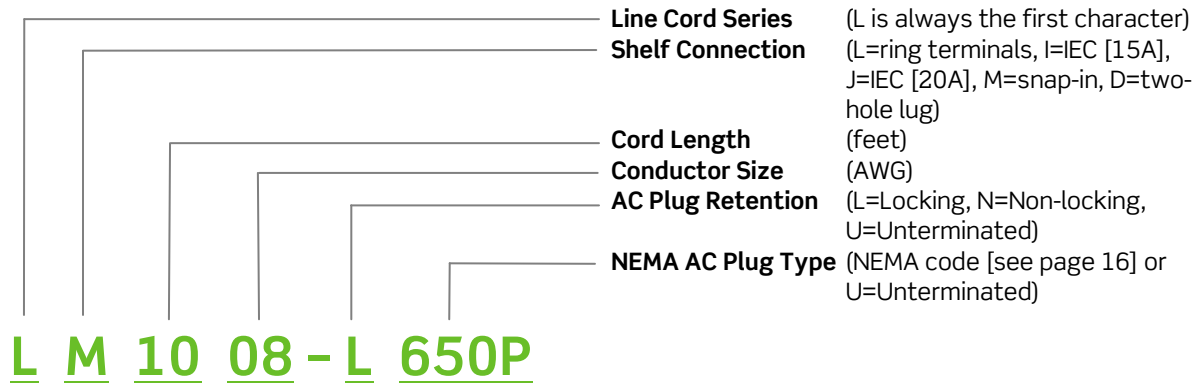


Figure 12 - Line cord naming convention



www.eltektvalere.com

Headquarters:

Eltek Valere

1303 E. Arapaho Rd, Richardson, TX. 75081, USA

Phone: +1 (469) 330-9100

Fax: +1 (469) 330-9101

Eltek Valere

Gråterudv. 8, Pb 2340 Strømsø, 3003 Drammen, Norway

Phone: +47 32 20 32 00 Fax: +47 32 20 32 10