

File E135493
Project 97ME14923

May 27, 1997

REPORT

on

COMPONENT-POWER SUPPLIES

Vicor Corporation
Andover, MA

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DESCRIPTION

PRODUCT COVERED:

USR, CNR: Component - Power supply modules, 2nd Generation; Maxi, Mini, and Micro, Models Viiisxyzzw. Refer to Ills. 1, 1A, 1B, 1C, 3 and 4, 5, 6.

GENERAL CHARACTER AND USE:

This product is a switching type power supply incorporating semiconductor components in the primary circuit. It is provided with input and output terminals for connection to the end use equipment. The power supply has been investigated to the Standard for Information Technology Equipment-Safety-Part 1: General Requirements, CAN/CSA C22.2 No. 60950-1-03, UL60950-1 and UL1012, Standard for Power Supplies.

NOMENCLATURE BREAKDOWN:

Model number coding breakdown is specified in Ills. 1, 1A, 1B, 1C, 3, and 4, 5, 6.

ELECTRICAL RATINGS:

Input - Input voltage and power are given by position 'i' in the Model number respectively, as indicated in nomenclature breakdown.

Output - Output voltage and power are given by positions x and z in Model number respectively, as indicated in nomenclature breakdown.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

For use only in or with equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Conditions of Acceptability - When installed in the end-use equipment, the following are among the considerations to be made.

1. These components have been judged on the basis of the required spacing in the Standard for Information Technology Equipment Equipment-Safety-Part 1: General Requirements, CAN/CSA C22.2 No. 60950-1-03, UL60950-1, and Fifth Edition of Power Supplies, UL-1012.
2. The power supply should be installed in compliance with the enclosure, mounting, spacing, casualty, and segregation requirements of the ultimate application.
3. The baseplate temperature should be measured in the end product. The 100°C temperature should not be exceeded.
4. Secondary circuits have not been investigated for secondary interconnection. Should outputs be connected in series or parallel in end-use applications, additional evaluation will be necessary for increased levels of voltage or current/power.
5. The unit should be located within an overall enclosure so that uninsulated current carrying parts are suitably enclosed.
6. The input and output terminals are not acceptable for field connections and are only intended for connection to mating connectors of internal wiring inside the end-use machine. The acceptability of these and the mating connectors relative to secureness, insulating materials, and temperature should be considered.
7. Leakage current measurements should be performed in the end use application.
8. When baseplate is accessible, ground baseplate to earth/chassis ground in end-product.
9. All units must have an external fuse provided in the end use application. See Table 1 for ratings.
10. Secondary Outputs 2V-48V comply with SELV requirements. Secondary 52V-95V are Non-SELV outputs.

Special Considerations - The following items are considerations that were used when evaluating this product.

The equipment is:

USR/CNR, indicates investigation to the U.S. and Canadian (Bi-National) Standard for Information Technology Equipment Equipment-Safety-Part 1: General Requirements, CAN/CSA C22.2 No. 60950-1-03, UL60950-1

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2nd Gen FasTrak DC-DC Converter Maxi, Mini, Micro Families external fusing

<u>Package Size</u>	<u>Input Voltage</u>	<u>Output Voltage</u>	<u>Output Power</u>	<u>Required Fuse</u>
Maxi (A)	375	2	160	BUSS PC TRON 5A
Maxi (A)	375	3.3	264	BUSS PC TRON 5A
Maxi (A)	375	5, 6.5, 8	400	BUSS PC TRON 5A
Maxi (A)	375	12, 15, 24, 28, 32, 36, 48, 54	600	BUSS PC TRON 5A
Mini (B)	375	2	100	BUSS PC TRON 5A
Mini (B)	375	3.3	150	BUSS PC TRON 5A
Mini (B)	375	5, 6.5, 8	200	BUSS PC TRON 5A
Mini (B)	375	12, 15, 24, 28, 32, 36, 48, 54	300	BUSS PC TRON 5A
Micro (C)	375	2	50	BUSS PC TRON 3A
Micro (C)	375	3.3	75	BUSS PC TRON 3A
Micro (C)	375	5, 6.5, 8	100	BUSS PC TRON 3A
Micro (C)	375	12, 15, 24, 28, 32, 36, 48, 54	150	BUSS PC TRON 3A
Maxi (A)	300	2	160	BUSS PC TRON 5A
Maxi (A)	300	3.3	264	BUSS PC TRON 5A
Maxi (A)	300	5, 6.5, 8	400	BUSS PC TRON 5A
Maxi (A)	300	12, 15, 24, 28, 32, 36, 48, 54	500	BUSS PC TRON 5A
Mini (B)	300	2	100	BUSS PC TRON 5A
Mini (B)	300	3.3	150	BUSS PC TRON 5A
Mini (B)	300	5, 6.5, 8	200	BUSS PC TRON 5A
Mini (B)	300	12, 15, 24, 28, 32, 36, 48, 54	250	BUSS PC TRON 5A
Micro (C)	300	2	50	BUSS PC TRON 3A
Micro (C)	300	3.3	75	BUSS PC TRON 3A
Micro (C)	300	5, 6.5, 8	100	BUSS PC TRON 3A
Micro (C)	300	12, 15, 24, 28, 32, 36, 48, 54	150	BUSS PC TRON 3A
Maxi (A)	150	3.3	264	BUSS ABC-8
Maxi (A)	150	5, 6.5	400	BUSS ABC-8
Maxi (A)	150	8, 12, 15, 24, 28, 32, 36, 48, 54	500	BUSS ABC-8
Mini (B)	150	3.3	150	BUSS PC TRON 5A
Mini (B)	150	5, 6.5, 8	200	BUSS PC TRON 5A
Mini (B)	150	12, 15, 24, 28, 32, 36, 48, 54	250	BUSS PC TRON 5A
Micro (C)	150	3.3	75	BUSS PC TRON 3A
Micro (C)	150	5, 6.5, 8	100	BUSS PC TRON 3A
Micro (C)	150	12, 15, 24, 28, 32, 36, 48, 54	150	BUSS PC TRON 3A
Maxi (A)	110	3.3	200	BUSS ABC-8
Maxi (A)	110	5, 6.5, 8	300	BUSS ABC-8
Maxi (A)	110	12, 15, 24, 28, 32, 36, 48, 54	400	BUSS ABC-8
Mini (B)	110	3.3	100	BUSS PC TRON 5A
Mini (B)	110	5, 6.5, 8	150	BUSS PC TRON 5A
Mini (B)	110	12, 15, 24, 28, 32, 36, 48, 54	200	BUSS PC TRON 5A
Micro (C)	110	3.3	50	BUSS PC TRON 3A
Micro (C)	110	5, 6.5, 8	75	BUSS PC TRON 3A
Micro (C)	110	12, 15, 24, 28, 32, 36, 48, 54	100	BUSS PC TRON 3A

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2nd Gen FasTrak DC-DC Converter Maxi, Mini, Micro Families external fusing

<u>Package Size</u>	<u>Input Voltage</u>	<u>Output Voltage</u>	<u>Output Power</u>	<u>Required Fuse</u>
Maxi (A)	72	3.3	264	BUSS ABC-12
Maxi (A)	72	5, 6.5, 8	300	BUSS ABC-12
Maxi (A)	72	12, 15, 24, 28, 32, 36, 48, 54	400	BUSS ABC-12
Mini (B)	72	3.3, 5, 6.5, 8	150	BUSS ABC-8
Mini (B)	72	12, 15, 24, 28, 32, 36, 48, 54	250	BUSS ABC-8
Micro (C)	72	3.3	75	BUSS PC TRON 5A
Micro (C)	72	5, 6.5, 8	100	BUSS PC TRON 5A
Micro (C)	72	12, 15, 24, 28, 32, 36, 48, 54	150	BUSS PC TRON 5A
Maxi (A)	48	3.3	264	BUSS ABC-10
Maxi (A)	48	5, 6.5, 8	400	BUSS ABC-15
Maxi (A)	48	12, 15, 24, 28, 32, 36, 48, 54	500	BUSS ABC-20
Mini (B)	48	2	100	BUSS ABC-8
Mini (B)	48	3.3	150	BUSS ABC-8
Mini (B)	48	5, 6.5, 8	200	BUSS ABC-10
Mini (B)	48	12, 15, 24, 28, 32, 36, 48, 54	250	BUSS ABC-10
Micro (C)	48	2	50	BUSS PC TRON 5A
Micro (C)	48	3.3	75	BUSS PC TRON 5A
Micro (C)	48	5, 6.5, 8	100	BUSS ABC-8
Micro (C)	48	12, 15, 24, 28, 32, 36, 48, 54	150	BUSS ABC-8
Maxi (A)	28	3.3	150	BUSS ABC-25
Maxi (A)	28	5	175	BUSS ABC-25
Maxi (A)	28	6.5, 8, 12, 15, 24, 28, 32, 36, 48, 54	200	BUSS ABC-30
Mini (B)	28	3.3	150	BUSS ABC-15
Mini (B)	28	5, 6.5, 8	200	BUSS ABC-15
Mini (B)	28	12, 15, 24, 28, 32, 36, 48, 54	250	BUSS ABC-15
Micro (C)	28	3.3	75	BUSS ABC-8
Micro (C)	28	5, 6.5, 8	100	BUSS ABC-10
Micro (C)	28	12, 15, 24, 28, 32, 36, 48, 54	150	BUSS ABC-10
Maxi (A)	24	3.3	264	BUSS ABC-25
Maxi (A)	24	5, 6.5, 8, 12, 15, 24, 28, 32, 36, 48	400	BUSS ABC-30
Maxi (A)	24	54	500	BUSS ABC-30
Mini (B)	24	3.3	150	BUSS ABC-15
Mini (B)	24	5, 6.5, 8, 12, 15, 24, 28, 32, 36, 48, 54	200	BUSS ABC-15
Micro (C)	24	3.3	75	BUSS ABC-8
Micro (C)	24	5, 6.5, 8, 12, 15, 24, 28, 32, 36, 48, 54	100	BUSS ABC-10

Viiiisxxyzzzw
24V 2nd Gen FasTrak DC-DC Converter Maxi, Mini, Micro Families

iii = Vin	s = size	xx = Output Voltage (alpha-numeric combination up to 3 characters)													
		2	3V3	5	6V5	8	12	15	24	28	32	36	48	54	
Nominal (Range)	A, B or C	zzz = Max Output Power in Watts (Up to 3 characters, actual output power rating may be less than Max)													
24 (18-36)	Maxi (A)		264	400	400	400	400	400	400	400	400	400	400	400	
24 (18-36)	Mini (B)		150	200	200	200	200	200	200	200	200	200	200	200	
24 (18-36)	Micro (C)	50	75	100	100	100	100	100	100	100	100	100	100	100	

y = Product Grade	
E = Economy -10C to 100C	C = Commercial -20C to 100C
M = Military -55C to 100C	T or H = Industrial -40C to 100C

w = Functionality: Bxyz (any alpha-numeric up to 4 characters, non safety related)			
B = RoHS	x = Pin Style	y = Baseplate	z = T
	Blank = Short Solder	Blank = Slotted	T = Thermscreen
	L = Long Solder	2 = Threaded	
	S = Short Modumate	3 = Thru hole	
	N = Long Modumate	4 = Slim	
	F = Short RoHS	5 = Retro	
	G = Long RoHS	6 = Comtech	

Example Model: V24C12C100BL3						
V	iii	s	xx	y	zzz	w
	Vin	Size	Vout	Grade	Power	Functionality
V	24	C	12	C	100	BL3 (RoHS, Long pin, Thru hole Bp)

Note: Viiiisxxyzzzw may be replaced by VI-bxxxxxw or VE-bxxxxxw per customer special request

Specials: VI-bxxxxxw or VE-bxxxxxw VE = RoHS version w = Functionality
b = size 7 = Micro, 8 = Mini, 9 = Maxi
xxxxx = 0 - 9 Denotes a unique customer number that represents a module that is based on the electrical parameters of the parent family module, (Voltage, Current, Power, Fusing.)
Specials with secondary voltages from 61-95 Vdc are non-SELV. See license conditions.

Examples:
VE-7xxxxxw, Micro module with Vin = 24 Vdc (18-36), Vout = 54V Max, Pout = 100W Max
VE-8xxxxxw, Mini module with Vin = 24 Vdc (18-36), Vout = 54V Max, Pout = 200W Max
VE-9xxxxxw, Maxi module with Vin = 24 Vdc (18-36), Vout = 54V Max, Pout = 400W Max

Viiiisxxyzzzw
28V 2nd Gen FasTrak DC-DC Converter Maxi, Mini, Micro Families

iii = Vin	s = size	xx = Output Voltage (alpha-numeric combination up to 3 characters)												
		2	3V3	5	6V5	8	12	15	24	28	32	36	48	54
Nominal (Range)	A, B or C	zzz = Max Output Power in Watts (Up to 3 characters, actual output power rating may be less than Max)												
28 (10-36)	Maxi (A)		150	200	200	200	200	200	200	200	200	200	200	200
28 (10-36)	Mini (B)		50	75	75	75	150	150	150	150	150	150	150	150
28 (10-36)	Micro (C)		50	50	60	75	100	100	100	100	100	100	100	100

y = Product Grade:	
E = Economy -10C to 100C	C = Commercial -20C to 100C
M = Military -55C to 100C	T or H = Industrial -40C to 100C

w = Functionality: Bxyz (any alpha-numeric up to 4 characters, non safety related)			
B = RoHS	x = Pin Style	y = Baseplate	z = T
	Blank = Short Solder	Blank = Slotted	T = Thermscreen
	L = Long Solder	2 = Threaded	
	S = Short Modumate	3 = Thru hole	
	N = Long Modumate	4 = Slim	
	F = Short RoHS	5 = Retro	
	G = Long RoHS	6 = Comtech	

Example Model: V28A12C200BL3						
V	iii	s	xx	y	zzz	w
	Vin	Size	Vout	Grade	Power	Functionality
V	28	A	12	C	200	BL3 (RoHS, Long pin, Thru hole Bp)

Note: Viiiisxxyzzzw may be replaced by VI-bxxxxxw or VE-bxxxxxw per customer special request

Specials: VI-bxxxxxw or VE-bxxxxxw VE = RoHS version w = Functionality
b = size 7 = Micro, 8 = Mini, 9 = Maxi
xxxxx = 0 - 9 Denotes a unique customer number that represents a module that is based on the electrical parameters of the parent family module, (Voltage, Current, Power, Fusing.)
Specials with secondary voltages from 61-95 Vdc are non-SELV. See license conditions.

Example:
VE-7xxxxxw, Micro module with Vin = 28 Vdc (10-36), Vout = 54 V Max, Pout = 100W Max
VE-8xxxxxw, Mini module with Vin = 28 Vdc (10-36), Vout = 54 V Max, Pout = 200W Max
VE-9xxxxxw, Maxi module with Vin = 28 Vdc (10-36), Vout = 54 V Max, Pout = 200W Max

Viiiisxxyzzzw
48V 2nd Gen FasTrak DC-DC Converter Maxi, Mini, Micro Families

iii = Vin	s = size	xx = Output Voltage (alpha-numeric combination up to 3 characters)													
		2	3V3	5	6V5	8	12	15	24	28	32	36	48	54	
Nominal (Range)	A, B or C	zzz = Max Output Power in Watts (Up to 3 characters, actual output power rating may be less than Max)													
48 (36-75)	Maxi (A)		264	400	400	500	500	500	500	500	500	500	500	500	
48 (36-75)	Mini (B)	100	150	200	200	250	250	250	250	250	250	250	250	250	
48 (36-75)	Micro (C)	50	75	100	100	150	150	150	150	150	150	150	150	150	

y = Product Grade	
E = Economy -10C to 100C	C = Commercial -20C to 100C
M = Military -55C to 100C	T or H = Industrial -40C to 100C

w = Functionality: Bxyz (any alpha-numeric up to 4 characters, non safety related)			
B = RoHS	x = Pin Style	y = Baseplate	z = T
	Blank = Short Solder	Blank = Slotted	T = Thermscreen
	L = Long Solder	2 = Threaded	
	S = Short Modumate	3 = Thru hole	
	N = Long Modumate	4 = Slim	
	F = Short RoHS	5 = Retro	
	G = Long RoHS	6 = Comtech	

Example Model: V48C12C150BL3						
V	iii	s	xx	y	zzz	w
	Vin	Size	Vout	Grade	Power	Functionality
V	48	C	12	C	150	BL3 (RoHS, Long pin, Thru hole Bp)

Note: Viiiisxxyzzzw may be replaced by VI-bxxxxxw or VE-bxxxxxw per customer special request

Specials: VI-bxxxxxw or VE-bxxxxxw VE = RoHS version w = Functionality
b = size 7 = Micro, 8 = Mini, 9 = Maxi
xxxxx = 0 - 9 Denotes a unique customer number that represents a module that is based on the electrical parameters of the parent family module, (Voltage, Current, Power, Fusing.)
Specials with secondary voltages from 61-95 Vdc are non-SELV. See license conditions.

Example:
VE-7xxxxxw, Micro module with Vin = 48 Vdc (36-75), Vout = 54V Max, Pout = 150W Max
VE-8xxxxxw, Mini module with Vin = 48 Vdc (36-75), Vout = 54V Max, Pout = 250W Max
VE-9xxxxxw, Maxi module with Vin = 48 Vdc (36-75), Vout = 54V Max, Pout = 500W Max

Viiiixxyzzzw
72V 2nd Gen FasTrak DC-DC Converter Maxi, Mini, Micro Families

iii = Vin	s = size	xx = Output Voltage (alpha-numeric combination up to 3 characters)												
		2	3V3	5	6V5	8	12	15	24	28	32	36	48	54
Nominal (Range)	A, B or C	zzz = Max Output Power in Watts (Up to 3 characters, actual output power rating may be less than Max)												
72 (43-101)	Maxi (A)		264	300	300	300	400	400	400	400	400	400	400	400
72 (43-101)	Mini (B)		150	150	150	150	250	250	250	250	250	250	250	250
72 (43-101)	Micro (C)		75	100	100	100	130	150	150	150	150	150	150	150

y = Product Grade	
E = Economy -10C to 100C	C = Commercial -20C to 100C
M = Military -55C to 100C	T or H = Industrial -40C to 100C

w = Functionality: Bxyz (any alpha-numeric up to 4 characters, non safety related)			
B = RoHS	x = Pin Style	y = Baseplate	z = T
	Blank = Short Solder	Blank = Slotted	T = Thermscreen
	L = Long Solder	2 = Threaded	
	S = Short Modumate	3 = Thru hole	
	N = Long Modumate	4 = Slim	
	F = Short RoHS	5 = Retro	
	G = Long RoHS	6 = Comtech	

Example Model: V72A12C400BL3						
V	iii	s	xx	y	zzz	w
	Vin	Size	Vout	Grade	Power	Functionality
V	72	A	12	C	400	BL3 (RoHS, Long pin, Thru hole Bp)

Note: **Viiiixxyzzzw** may be replaced by **VI-bxxxxxw** or **VE-bxxxxxw** per customer special request

Specials: VI-bxxxxxw or VE-bxxxxxw VE = RoHS version w = Functionality
b = size 7 = Micro, 8 = Mini, 9 = Maxi
xxxxx = 0 - 9 Denotes a unique customer number that represents a module that is based on the electrical parameters of the parent family module, (Voltage, Current, Power, Fusing.)
Specials with secondary voltages from 61-95 Vdc are non-SELV. See license conditions.

Examples:
VE-7xxxxxw, Micro module with Vin = 72 Vdc (36-75), Vout = 54 V Max, Pout = 150W Max
VE-8xxxxxw, Mini module with Vin = 72 Vdc (36-75), Vout = 54 V Max, Pout = 250W Max
VE-9xxxxxw, Maxi module with Vin = 72 Vdc (36-75), Vout = 54 V Max, Pout = 400W Max

Viiisxxyzzzw

110V 2nd Gen FasTrak DC-DC Converter Maxi, Mini, Micro Families

iii = Vin	s = size	xx = Output Voltage (alpha-numeric combination up to 3 characters)												
		2	3V3	5	6V5	8	12	15	24	28	32	36	48	54
Nominal (Range)	A, B or C	zzz = Max Output Power in Watts (Up to 3 characters, actual output power rating may be less than Max)												
110 (66-154)	Maxi (A)		200	300	300	300	400	400	400	400	400	400	400	400
110 (66-154)	Mini (B)		100	150	150	150	200	200	200	200	200	200	200	200
110 (66-154)	Micro (C)		50	75	75	75	100	100	100	100	100	100	100	100

y = Product Grade:

E = Economy -10C to 100C	C = Commercial -20C to 100C
M = Military -55C to 100C	T or H = Industrial -40C to 100C

w = Functionality: Bxyz (any alpha-numeric up to 4 characters, non safety related)			
B = RoHS	x = Pin Style	y = Baseplate	z = T
	Blank = Short Solder	Blank = Slotted	T = Thermscreen
	L = Long Solder	2 = Threaded	
	S = Short Modumate	3 = Thru hole	
	N = Long Modumate	4 = Slim	
	F = Short RoHS	5 = Retro	
	G = Long RoHS	6 = Comtech	

Example Model: V110C12C100BL3						
V	iii	s	xx	y	zzz	w
	Vin	Size	Vout	Grade	Power	Functionality
V	110	C	12	C	100	BL3 (RoHS, Long pin, Thru hole Bp)

Note: Viiisxxyzzzw may be replaced by VI-bxxxxxw or VE-bxxxxxw per customer special request

Specials: VI-bxxxxxw or VE-bxxxxxw VE = RoHS version w = Functionality
b = size 7 = Micro, 8 = Mini, 9 = Maxi
xxxxx = 0 - 9 Denotes a unique customer number that represents a module that is based on the electrical parameters of the parent family module, (Voltage, Current, Power, Fusing.)
Specials with secondary voltages from 61-95 Vdc are non-SELV. See license conditions.

Example:

VE-7xxxxxw, Micro module with Vin = 110 Vdc (66-154), Vout = 54V Max, Pout = 100W Max
VE-8xxxxxw, Mini module with Vin = 110 Vdc (66-154), Vout = 54V Max, Pout = 200W Max
VE-9xxxxxw, Maxi module with Vin = 110 Vdc (66-154), Vout = 54V Max, Pout = 400W Max

Viiiixxyzzzw
150V 2nd Gen FasTrak DC-DC Converter Maxi, Mini, Micro Families

iii = Vin	s = size	xx = Output Voltage (alpha-numeric combination up to 3 characters)													
		2	3V3	5	6V5	8	12	15	24	28	32	36	48	54	
Nominal (Range)	A, B or C	zzz = Max Output Power in Watts (Up to 3 characters, actual output power rating may be less than Max)													
150 (100-200)	Maxi (A)		264	400	400	500	500	500	500	500	500	500	500	500	
150 (100-200)	Mini (B)		150	200	200	200	250	250	250	250	250	250	250	250	
150 (100-200)	Micro (C)		75	100	100	100	150	150	150	150	150	150	150	150	

y = Product Grade	
E = Economy -10C to 100C	C = Commercial -20C to 100C
M = Military -55C to 100C	T or H = Industrial -40C to 100C

w = Functionality: Bxyz (any alpha-numeric up to 4 characters, non safety related)			
B = RoHS	x = Pin Style	y = Baseplate	z = T
	Blank = Short Solder	Blank = Slotted	T = Thermscreen
	L = Long Solder	2 = Threaded	
	S = Short Modumate	3 = Thru hole	
	N = Long Modumate	4 = Slim	
	F = Short RoHS	5 = Retro	
	G = Long RoHS	6 = Comtech	

Example Model: V150A3V3C264BL3T						
V	iii	s	xx	y	zzz	w
	Vin	Size	Vout	Grade	Power	Functionality
V	150	C	3V3	C	264	BL3 (RoHS, Long pin, Thru hole Bp)

Note: Viiiixxyzzzw may be replaced by VI-bxxxxxw or VE-bxxxxxw per customer special request

Specials: VI-bxxxxxw or VE-bxxxxxw VE = RoHS version w = Functionality
b = size 7 = Micro, 8 = Mini, 9 = Maxi
xxxxx = 0 - 9 Denotes a unique customer number that represents a module that is based on the electrical parameters of the parent family module, (Voltage, Current, Power, Fusing.)
Specials with secondary voltages from 61-95 Vdc are non-SELV. See license conditions.

Examples:
VE-7xxxxxw, Micro module with Vin = 48 Vdc (36-75), Vout = 54 V Max, Pout = 150W Max
VE-8xxxxxw, Mini module with Vin = 48 Vdc (36-75), Vout = 54 V Max, Pout = 250W Max
VE-9xxxxxw, Maxi module with Vin = 48 Vdc (36-75), Vout = 54 V Max, Pout = 500W Max

Viiiisxxyzzzw
300V 2nd Gen FasTrak DC-DC Converter Maxi, Mini, Micro Families

iii = Vin	s = size	xx = Output Voltage (alpha-numeric combination up to 3 characters)													
		2	3V3	5	6V5	8	12	15	24	28	32	36	48	54	
Nominal (Range)	A, B or C	zzz = Max Output Power in Watts (Up to 3 characters, actual output power rating may be less than Max)													
300 (180-375)	Maxi (A)	160	264	400	400	400	500	500	500	500	500	500	500	500	
300 (180-375)	Mini (B)	100	150	200	200	200	250	250	250	250	250	250	250	250	
300 (180-375)	Micro (C)	50	75	100	100	100	150	150	150	150	150	150	150	150	

y = Product Grade	
E = Economy -10C to 100C	C = Commercial -20C to 100C
M = Military -55C to 100C	T or H = Industrial -40C to 100C

w = Functionality: Bxyz (any alpha-numeric up to 4 characters, non safety related)			
B = RoHS	x = Pin Style	y = Baseplate	z = T
	Blank = Short Solder	Blank = Slotted	T = Thermscreen
	L = Long Solder	2 = Threaded	
	S = Short Modumate	3 = Thru hole	
	N = Long Modumate	4 = Slim	
	F = Short RoHS	5 = Retro	
	G = Long RoHS	6 = Comtech	

Example Model: V300C3V3C75BL3						
V	iii	s	xx	y	zzz	w
	Vin	Size	Vout	Grade	Power	Functionality
V	300	C	3V3	C	75	BL3 (RoHS, Long pin, Thru hole Bp)

Note: Viiiisxxyzzzw may be replaced by VI-bxxxxxw or VE-bxxxxxw per customer special request

Specials: VI-bxxxxxw or VE-bxxxxxw VE = RoHS version w = Functionality
b = size 7 = Micro, 8 = Mini, 9 = Maxi
xxxxx = 0 - 9 Denotes a unique customer number that represents a module that is based on the electrical parameters of the parent family module, (Voltage, Current, Power, Fusing.)
Specials with secondary voltages from 61-95 Vdc are non-SELV. See license conditions.

Example:
VE-7xxxxxw, Micro module with Vin = 300 Vdc (180-375), Vout = 54V Max, Pout = 150W Max
VE-8xxxxxw, Mini module with Vin = 300 Vdc (180-375), Vout = 54V Max, Pout = 250W Max
VE-9xxxxxw, Maxi module with Vin = 300 Vdc (180-375), Vout = 54V Max, Pout = 500W Max

Viiiisxxyzzzww
375V 2nd Gen FasTrak DC-DC Converter Maxi, Mini, Micro Families

iii = Vin	s = size	xx = Output Voltage (alpha-numeric combination up to 3 characters)												
		2	3V3	5	6V5	8	12	15	24	28	32	36	48	54
Nominal (Range)	A, B or C	zzz = Max Output Power in Watts (Up to 3 characters, actual output power rating may be less than Max)												
375 (250-425)	Maxi (A)	160	264	400	400	400	600	600	600	600	600	600	600	600
375 (250-425)	Mini (B)	100	150	200	200	200	300	300	300	300	300	300	300	300
375 (250-425)	Micro (C)	50	75	100	100	100	150	150	150	150	150	150	150	150

y = Product Grade:	
E = Economy -10C to 100C	C = Commercial -20C to 100C
M = Military -55C to 100C	T or H = Industrial -40C to 100C

w = Functionality: Bxyz (any alpha-numeric up to 4 characters, non safety related)			
B = RoHS	x = Pin Style	y = Baseplate	z = T
	Blank = Short Solder	Blank = Slotted	T = Thermscreen
	L = Long Solder	2 = Threaded	
	S = Short Modumate	3 = Thru hole	
	N = Long Modumate	4 = Slim	
	F = Short RoHS	5 = Retro	
	G = Long RoHS	6 = Comtech	

Example Model: V375A12C600BL3						
V	iii	s	xx	y	zzz	w
	Vin	Size	Vout	Grade	Power	Functionality
V	375	A	12	C	600	BL3 (RoHS, Long pin, Thru hole Bp)

Note: **Viiiisxxyzzzww** may be replaced by **VI-bxxxxxw** or **VE-bxxxxxw** per customer special request

Specials: VI-bxxxxxw or VE-bxxxxxw VE = RoHS version w = Functionality
b = size 7 = Micro, 8 = Mini, 9 = Maxi
xxxxx = 0 - 9 Denotes a unique customer number that represents a module that is based on the electrical parameters of the parent family module, (Voltage, Current, Power, Fusing.)
Specials with secondary voltages from 61-95 Vdc are non-SELV. See license conditions.

Example:
VE-7xxxxxw, Micro module with Vin = 375 Vdc (250-425), Vout = 54V Max, Pout = 150W Max
VE-8xxxxxw, Mini module with Vin = 375 Vdc (250-425), Vout = 54V Max, Pout = 300W Max
VE-9xxxxxw, Maxi module with Vin = 375 Vdc (250-425), Vout = 54V Max, Pout = 600W Max