



America

CERTIFICATE

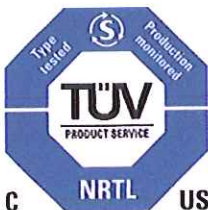
No. U8V 10 11 21433 261

Holder of Certificate: Vicor Corporation

25 Frontage Road
Andover, MA 01810
USA

Production Facility(ies): 67768

Certification Mark:



Product: DC converter
DC-DC Converter

Model(s): VI- J00 (Mini Mod) and Mega/Master Series
Model: VI-J60-CW
(See certificate attachments for nomenclature breakdown and ratings.)

Parameters:

Rated Input Voltage:	400 V DC Max.
Rated Output Power:	300 W Max.
Protection Class:	I
Degree of Protection:	IPX0

Tested according to: CAN/CSA C22.2 No. 60950-1:2007
UL 60950-1:2007
EN 60950-1/A11:2009

The product was voluntarily tested according to the relevant safety requirements and mentioned properties. It can be marked with the certification mark shown above. The certification mark must not be altered in any way. This product certification system operated by TÜV SÜD America Inc. most closely resembles that described by ISO/IEC Guide 67, Conformity assessment - Fundamentals of product certification, System 3. See also notes overleaf.

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VI-Jbc-de-xx
VI-J00 (MiniMOD) DC-DC Series

VI = Product Type

VI = VI (Vicor), VI = VE (Vicor RoHS), VI = MI (Military), VI = IP (Vicor Japan)
VI = IE (Vicor Japan RoHS)

d = Product Grade

C = Commercial -20C to 100C
I = Industrial -40C to 100C
M = Military -55C to 100C
E = Economy 0C to 100C

e = Output Power /Current

Vout ≥ 5V	Vout < 5V
W = 100W	20A
X = 75W	15A
Y = 50W	10A
Z = 25W	5A

b = Input Voltage (Vdc)

	Nominal	Range
0 =	12	10-20
V =	24	10-36
1 =	24	21-32
W =	24	18-36
2 =	36	21-56
3 =	48	42-60
N =	48	36-76
4 =	72	55-100
T =	110	66-160
F =	165	130-260
5 =	150	100-200
6 =	300	200-400
7 =	225	100-375

c = Output Voltage (Vdc)

	Nominal	Max(A)	Max(W)		Nominal	Max(A)	Max(W)
Z =	2.0 @	20A	40W	2 =	15.0 @	6.6A	100W
Y =	3.3 @	20A	66W	N =	18.5 @	5.4A	100W
0 =	5.0 @	20A	100W	3 =	24.0 @	4.2A	100W
X =	5.2 @	19.2A	100W	L =	28.0 @	3.6A	100W
W =	5.5 @	18.2A	100W	J =	36.0 @	2.7A	100W
V =	5.8 @	17.2A	100W	K =	40.0 @	2.5A	100W
T =	6.5 @	15.4A	100W	4 =	48.0 @	2.1A	100W
R =	7.5 @	13.3A	100W	H =	52.0 @	1.9A	100W
M =	10.0 @	10A	100W	F =	72.0 @	1.4A	100W
1 =	12.0 @	8.3A	100W	D =	85.0 @	1.2A	100W
P =	13.8 @	7.2A	100W	B =	95.0 @	1.1A	100W

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VI-J00 (MiniMOD) DC-DC Series (cont.)

xx = Specials / Options

F1-F7 = FinMOD (Heatsink)

S = SlimMOD (Flangeless Package)

B1 = BusMOD (screw / lug wiring interface)

0 – 99 = Customer special, unique label or testing, non-safety related changes, **d** and **e** are optional for specials

**VI-aJbccc-deee-xx
Mega/Master DC-DC Series**

VI Product Type

VI = VI (Vicor), VI = VE (Vicor RoHS), VI = IP (VJCL), VI = IE (VJCL RoHS), VI = MI (Mil COTS)

a Product Configuration

L = 1 module, 1 output

Pout max = 100W

P = 2 modules, 2 outputs

Pout max = 200W

R = Up to 3 modules, 3 outputs

Pout max = 300W

J = Constant, defines Junior Series

b Input Voltage (Vdc)

Nominal	Range	Nominal	Range
0 = 12	10-20	4 = 72	55-100
V = 24	10-36	T = 110	66-160
1 = 24	21-32	F = 165	130-260
W = 24	18-36	5 = 150	100-200
2 = 36	21-56	6 = 300	200-400
3 = 48	42-60	7 = 225	100-375
N = 48	36-76		

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VI-aJbccc-deeee-xx
Mega/Master DC-DC Series (cont.)

ccc	Output Voltage (Vdc)			
Z = 2.0	2 = 15.0	Y = 3.3		N = 18.5
0 = 5.0	3 = 24.0	X = 5.2		L = 28.0
W = 5.5	J = 36.0	V = 5.8		K = 40.0
T = 6.5	4 = 48.0	R = 7.5		H = 52.0
M = 10.0	F = 72.0	1 = 12.0		D = 85.0
P = 13.8	B = 95.0			

d	Product Grade	
	C = Commercial	-25C to 85C
	I = Industrial	-40C to 85C
	M = Military	-55C to 85C
	E = Economy	-10C to 85C

eee Output Power max (* = R for 3 modules, P for 2 modules, L for 1 module)

Mega / Master Jr Series No.	Max Pout Assembly	Max Pout Module
VI-*J7xxx-xxxx	225W	75W
VI-*J6xxx-xxxx	300W	100W
VI-*J5xxx-xxxx	300W	100W
VI-*JTxxx-xxxx	300W	100W
VI-*J4xxx-xxxx	300W	100W
VI-*JNxxx-xxxx	300W	100W
VI-*J3xxx-xxxx	300W	100W
VI-*J2xxx-xxxx	225W	75W
VI-*JWxxx-xxxx	300W	100W
VI-*J1xxx-xxxx	300W	100W
VI-*JVxxx-xxxx	150W	50W
VI-*J0xxx-xxxx	225W	75W

xx Options/Specials
 00-99 = Customer special, unique label or testing, non-safety related changes, d and e are optional for specials

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VI J00 Series of DC-DC converters

- Input Voltage:** Nameplate rating is the nominal input voltage. Vicor guarantees continuous operation over the entire specified voltage range.
- Baseplate Grounding:** A ground connection from baseplate to earth / chassis ground is required if baseplate is operator accessible
- Max Temperature:** Keep the maximum baseplate temperature at 100°C or less measured at the center of the module or the middle mounting slot (negative pin side). Do not exceed 100°C under any condition.
- Over temperature:** If the baseplate temperature exceeds 100°C the module may be damaged.
- Output Voltage Trimming:** The module has a maximum allowable Trim of 110% of rated output voltage. Do not exceed maximum power output of the module. When trimmed down the maximum output current remains constant.
- Secondary outputs:** 40V and below comply with SELV. Outputs above 40V to 95Vdc do not meet SELV requirements.
- Fusing Requirements:** See table for Input fusing

Model	Max Input Fuse Rating
VI-J7x-xx	Bussmann PC-Tron 2.5 A, 250 V ac/450 V dc
VI-J6x-xx	Bussmann PC-Tron 3 A, 250 V ac/350 V dc
VI-J5x-xx	Bussmann PC-Tron 5 A, 125 V ac/250 V dc
VI-JTx-xx	Bussmann PC-Tron 5 A, 125 V ac/250 V dc
VI-J4x-xx	Bussmann PC-Tron 5 A, 125 V ac/250 V dc
VI-J3x-xx	Bussmann PC-Tron 5 A, 125 V ac/250 V dc
VI-JNx-xx	Bussmann PC-Tron 5 A, 125 V ac/250 V dc
	Alternates - Littelfuse R251005 (5 A, 125 V ac/V dc)
	Bussmann MCR5 (5 A, 125 V ac/V dc)
VI-JNx-xY	Bussmann PC-Tron 3 A, 125 V ac/250 V dc
	Alternate - Littelfuse R251003 (3 A, 125 V ac/V dc)
VI-J2x-xx	Bussmann PC-Tron 5 A, 125 V ac/250 V dc
VI-JWx-xx	8 A/60 or 8A / 125 V
VI-J1x-xx	8 A/60 or 8A / 125 V
VI-JVx-xx	8 A/60 or 8A / 125 V
VI-J0x-xx	8 A/60 or 8A / 125 V

Refer to Vicor’s Applications Manual for information on proper use of modules.

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Mega/Master Jr Series

- Input Voltage:** Nameplate rating is the nominal input voltage. Vicor guarantees continuous operation over the entire specified voltage range.
- Baseplate Grounding:** A ground connection from baseplate to earth / chassis ground is required if baseplate is operator accessible
- Max Temperature:** Keep the maximum baseplate temperature at 100°C or less measured at the center of the supply or the middle mounting slot (negative pin side). Do not exceed 100°C under any condition.
- Over temperature:** If the baseplate temperature exceeds 100°C the supply may be damaged.
- Output Voltage Trimming:** The module has a maximum allowable Trim of 110% of rated output voltage. Do not exceed maximum power output of the module. When trimmed down the maximum output current remains constant.
- Secondary outputs:** 40V and below comply with SELV. Outputs above 40V to 95Vdc do not meet SELV requirements.
- Fusing Requirements:** See table for Input fusing

Mega / Master Series No.	Input Fuse (Max)	Input Fuse (Max)	Input Fuse (Max)
	3 module Config: RJ	2 module Config: PJ	1 module Config; LJ
VI-*J7xxx-xxxx	PC-Tron 3A	PC-Tron 3A	PC-Tron 2.5A
VI-*J6xxx-xxxx	PC-Tron 3A	PC-Tron 3A	PC-Tron 3A
VI-*J5xxx-xxxx	PC-Tron 5A	PC-Tron 5A	PC-Tron 5A
VI-*JTxxx-xxxx	8A, 125V	PC-Tron 5A	PC-Tron 5A
VI-*J4xxx-xxxx	10A, 125V	8A, 125V	PC-Tron 5A
VI-*JNxxx-xxxx	10A, 125V	8A, 125V	PC-Tron 5A
VI-*J3xxx-xxxx	10A, 125V	8A, 125V	PC-Tron 5A
VI-*J2xxx-xxxx	10A, 125V	8A, 125V	PC-Tron 5A
VI-*JWxxx-xxxx	20A, 125V	12A, 125V	8A, 125V
VI-*J1xxx-xxxx	20A, 125V	12A, 125V	8A, 125V
VI-*JVxxx-xxxx	20A, 125V	10A, 125V	8A, 125V
VI-*J0xxx-xxxx	20A, 125V	15A, 125V	8A, 125V

* = R for 3 modules * = P for 2 modules * = L for 1 module

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