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TECHNOLOGY GROUP

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Find the *Vicor VI-RCW022-CVXX-H1* at our website: ***Click HERE***

ComPAC™
DC-DC Switchers



50 – 600 Watts; 1 – 3 Outputs

Features & Benefits

- RoHS Compliant (VE versions)
- Inputs 24, 48 and 300V_{DC}
- Any output: 1 – 95V_{DC}
- Meets EN55022 Class A conducted emissions (See Notes)
- cULus, cTÜVus (60950-1)
- CE marked (LVD)
- 80 – 90% efficiency
- Up to 10W/in^3
- Master disable
- Overvoltage shutdown

Product Description

ComPAC delivers up to 600W from one, two, or three outputs in a package just 0.99in [25,2mm] in height with the field-proven performance, high efficiency and high reliability inherent in Vicor component-level power converters. ComPAC meets conducted emissions of EN55022 Class A. ComPAC is offered with input voltage ranges optimized for industrial and telecommunication applications and provides extended input overvoltage capability, undervoltage lockout and master disable.

Packaging Options

Conduction Cooled Models Available.
Add "-CC" to the end of the part number.
(Consult factory for details.)
Extended heat sink available.
Add "–H1" to end of part number.

Configuration Chart

Configuration[a]	Output Power	Number of Modules	Dimensions
Single Output			
VI-LC	50 – 200W	1	8.6 x 2.5 x 0.99in [218,4 x 63,5 x 25,2mm]
VI-MC	100 – 400W	2	8.6 x 4.9 x 0.99in [218,4 x 124,5 x 25,2mm]
VI-NC	300 – 600W	3	8.6 x 7.3 x 0.99in [218,4 x 185,4 x 25,2mm]
Dual Output			
VI-PC	100 – 400W	2	8.6 x 4.9 x 0.99in [218,4 x 124,5 x 25,2mm]
VI-QC	150 – 600W	3	8.6 x 7.3 x 0.99in [218,4 x 185,4 x 25,2mm]
Triple Output			
VI-RC	150 – 600W	3	8.6 x 7.3 x 0.99in [218,4 x 185,4 x 25,2mm]

[a] Substitute VE– for VI– for RoHS-compliant versions

Input Voltage

Nominal	Input Range Full Power	Maximum Power[b]	Low Line 75% Max. Power	Transient (1s)
1 = 24V	21 – 32V	(1)	18	36
W = 24V	18 – 36V	(1)	N/A	N/A
3 = 48V	42 – 60V	(2)	41	72
N = 48V	36 – 76V	(2)	N/A	N/A
6 = 300V	200 – 400V	(2)	188	425

[b] Max Output per Module	5V Outputs	>5V Outputs	<5V Outputs
(1)	150W	150W	30A
(2)	200W	200W	40A

Output Voltage

Z = 2V	**2** = 15V
Y = 3.3V	**N** = 18.5V
0 = 5V	**3** = 24V
X = 5.2V	**L** = 28V
W = 5.5V	**J** = 36V
V = 5.8V	**K** = 40V
T = 6.5V	**4** = 48V
R = 7.5V	**H** = 52V
M = 10V	**F** = 72V
1 = 12V	**D** = 85V
P = 13.8V	**B** = 95V

Product Grade Case Temps. °C

Grade	Operating	Storage
E =	–10 to +85	–20 to +100
C =	–25 to +85	–40 to +100
I =	–40 to +85	–55 to +100
M =	–55 to +85	–65 to +100

Output Power / Current

$V_{OUT} \geq 5V$	$V_{OUT} < 5V$
W = 100W	**W** = 20A
V = 150W	**V** = 30A
U = 200W	**U** = 40A
S = 300W	**S** = 60A
Q = 400W	**Q** = 80A

Output Power / Current

$V_{OUT} \geq 5V$	$V_{OUT} < 5V$
Y = 50W	**Y** = 10A
X = 75W	**X** = 15A
W = 100W	**W** = 20A
V = 150W	**V** = 30A
U = 200W	**U** = 40A

Output Power / Current

$V_{OUT} \geq 5V$	$V_{OUT} < 5V$
S = 300W	**S** = 60A
P = 450W	**P** = 90A
M = 600W	**M** = 120A

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Configurable Specifications

Typical at T_{BP} = 25°C, nominal line and 75% load, unless otherwise specified, V_{NOM} is factory set output voltage and I_{NOM} is maximum rated output current.

Input Specifications

	E-Grade			C-, I-, M-Grade				
Parameter	**Min**	**Typ**	**Max**	**Min**	**Typ**	**Max**	**Unit**	**Test Conditions**
24V	21	24	32	21	24	32	V_{DC}	See Fusing Information on Page 3
24V Wide	18	24	36	18	24	36	V_{DC}	
48V	42	48	60	42	48	60	V_{DC}	
48V Wide	36	48	76	36	48	76	V_{DC}	
300V	200	300	400	200	300	400	V_{DC}	
No Load Power Dissipation [c]	1.35		2	1.35		2	Watts	
Master Disable Input Current [c] (Absolute Max., 20mA)	4			4			mA	Sink or source to disable optocoupler (See Section 18 ComPAC Technical Description in VI-200™/VI-J00™ Applications Manual)
Quiescent Input Current Logic Disable [c]		7	10		7	10	mA	Current drawn from source when disabled

[c] For MC, PC series, multiply value by 2; for NC, QC, RC series, multiply value by 3.

Output Specifications

Applies to each output individually.

	E-Grade			C-, I-, M-Grade				
Parameter	**Min**	**Typ**	**Max**	**Min**	**Typ**	**Max**	**Units**	**Test Conditions**
Set Point Accuracy		1%	2%		0.5%	1%	V_{NOM}	
Load / Line Regulation			0.5%		0.05%	0.2%	V_{NOM}	LL to HL, 10% to full load
Load / Line Regulation			1%		0.2%	0.5%	V_{NOM}	LL to HL, no load to full load
Output Temperature Drift		0.02			0.01	0.02	%/°C	Over-rated temperature range
Long-Term Drift		0.02			0.02		%/1khrs.	
Output Ripple								
2V, 3.3V			150		60	100	mV_{P-P}	20MHz bandwidth
5V			250		100	150	mV_{P-P}	20MHz bandwidth
10 – 48V			3%		0.75%	1.5%	$V_{NOM_{P-P}}$	20MHz bandwidth
Output Voltage Trimming [d]	50%		110%	50%		110%	V_{NOM}	
Total Remote-Sense Compensation [d]	0.5			0.5			Volts	0.25V maximum allowable drop in –OUT lead
OVP Set Point		125%		115%	125%	135%	V_{NOM}	Recycle power to restart
Current Limit	105%		135%	105%		125%	I_{NOM}	Automatic restart
Short-Circuit Current [e]	20%		140%	20%		130%	I_{NOM}	

[d] 10, 12 and 15V outputs, trim range ±10%. Consult factory for wider trim range.
[e] Output voltages of 5V or less incorporate foldback current limiting, outputs greater than 5V incorporate straight line current limiting.

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Configurable Specifications (Cont.)

Thermal Characteristics

	E-Grade			C-, I-, M-Grade				
Parameter	**Min**	**Typ**	**Max**	**Min**	**Typ**	**Max**	**Units**	**Test Conditions**
Efficiency		78 – 88%			80 – 90%			for 5V outputs and higher
Shut-Down Temp. — Case [f]	90	95	105	90	95	105	°C	Cool and recycle power to restart
Operating Temp. — Case			85			85	°C	See Thermal Curves

[f] Shut-down temperature threshold is above maximum operating temperature. For over temperature protection, external means of disable should be employed below maximum operating temperature.

Isolation Characteristics

	E-Grade			C-, I-, M-Grade				
Parameter	**Min**	**Typ**	**Max**	**Min**	**Typ**	**Max**	**Unit**	**Test Conditions**
Isolation								
Input to Output	4,242			4,242			V_{DC}	
Output to Case	707			707			V_{DC}	
Input to Case	2,121			2,121			V_{DC}	

Mechanical Specifications

	E-Grade			C-, I-, M-Grade				
Parameter	**Min**	**Typ**	**Max**	**Min**	**Typ**	**Max**	**Units**	**Test Conditions**
Weight [g]	19.2 [544]			19.2 [544]			Ounces [Grams]	

[g] For MC, PC series, multiply value by 2; for NC, QC, RC series, multiply value by 3.

Fusing Information

Input Voltage	**24V**	**48V**	**300V**
LC Series (200W)	10A	7A	2A
MC, PC Series (400W)	20A	15A	4A
NC, QC, RC Series (600W)	35A	25A	6A

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Configurable Specifications (Cont.)

Agency Approvals

Safety Standards	Markings	Notes
ANSI / ISA 12.12.01 - 2012, C22.2 No. 213-M1987	cURus	
UL / CSA / EN / IEC 60950-1	cURus, cTÜVus,CE Marked	Low Voltage Directive and RoHS Recast Directive as applicable.

EMI / EMC Characteristics

Performed on selected samples representative of the ComPAC product family.

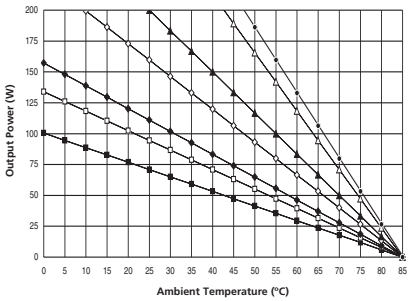
Parameter	Notes
Conducted Emissions EN 55022, Class A	3-Module configurations may require additional filter components under certain line and load conditions to comply with EN55022 class A.
ESD IEC 61000-4-2 Level 4	Top, Bottom and Sides

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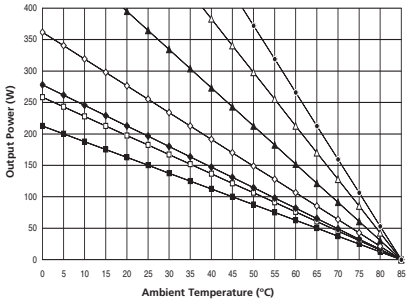
Thermal Curves

FREE AIR — 50LFM — 100LFM — 250LFM — 500LFM — 750LFM — 1000LFM

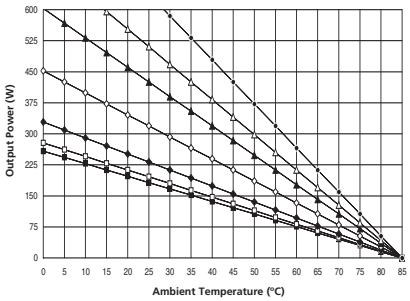
2V to 7.5V Output, Standard heat sink



LC Series

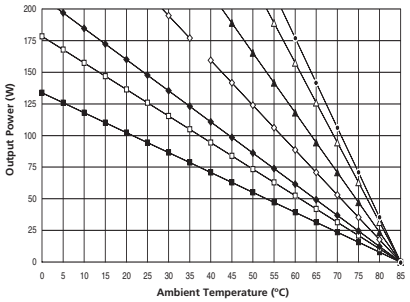


MC, PC Series

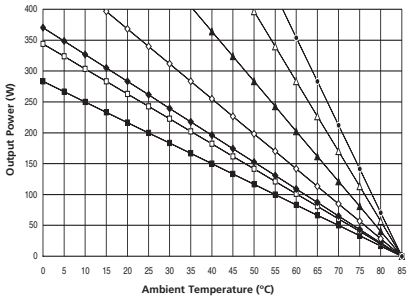


NC, QC, RC Series

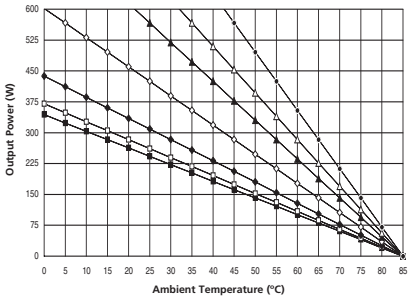
10V to 95V Output, Standard heat sink



LC Series

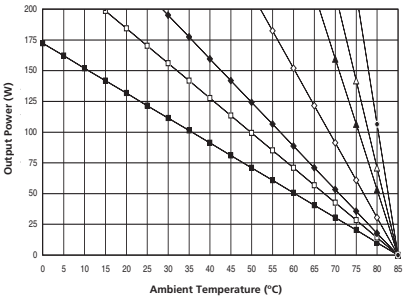


MC, PC Series

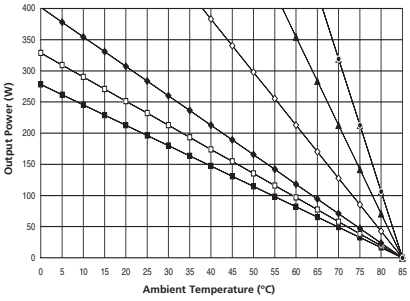


NC, QC, RC Series

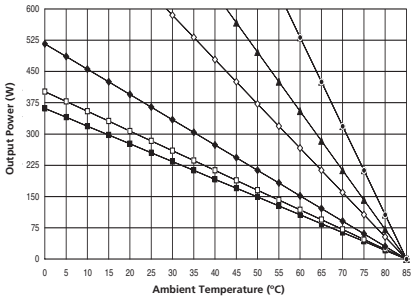
2V to 7.5V Output , H1 heat sink



LC Series

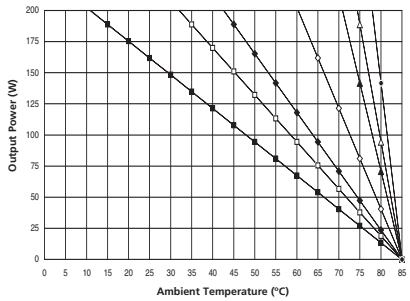


MC, PC Series

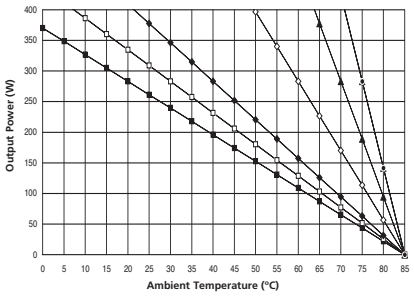


NC, QC, RC Series

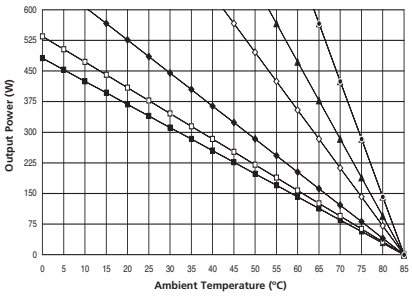
10V to 95V Output, H1 heat sink



LC Series



MC, PC Series



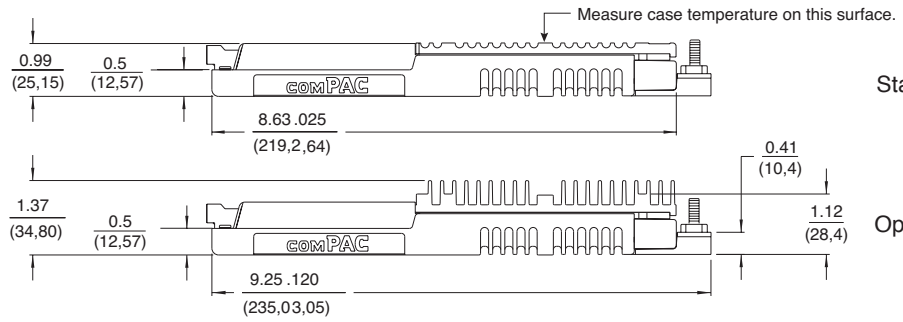
NC, QC, RC Series

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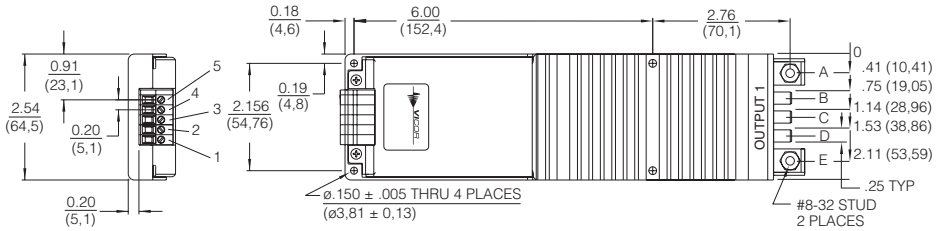
Mechanical Drawings

All Models

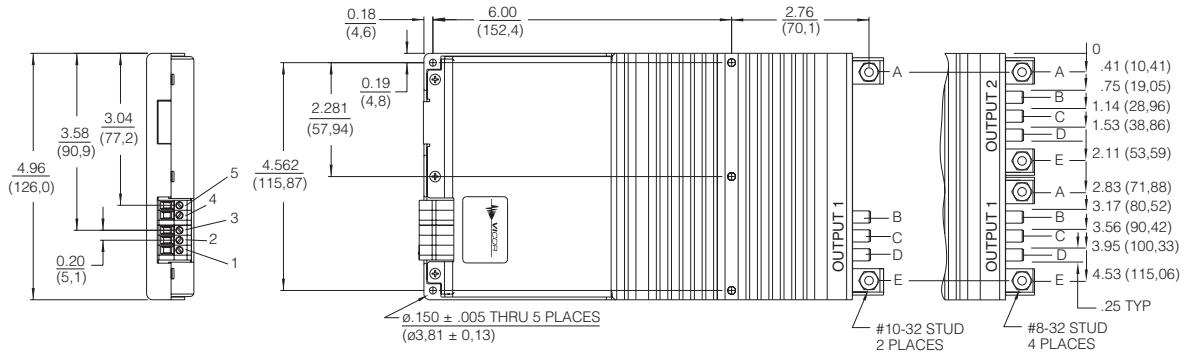
INPUTS	
1	Ground
2	–Input
3	+Input
4	Disable–
5	Disable+
OUTPUTS	
A	+Output
B	+Sense
C	Trim
D	–Sense
E	–Output



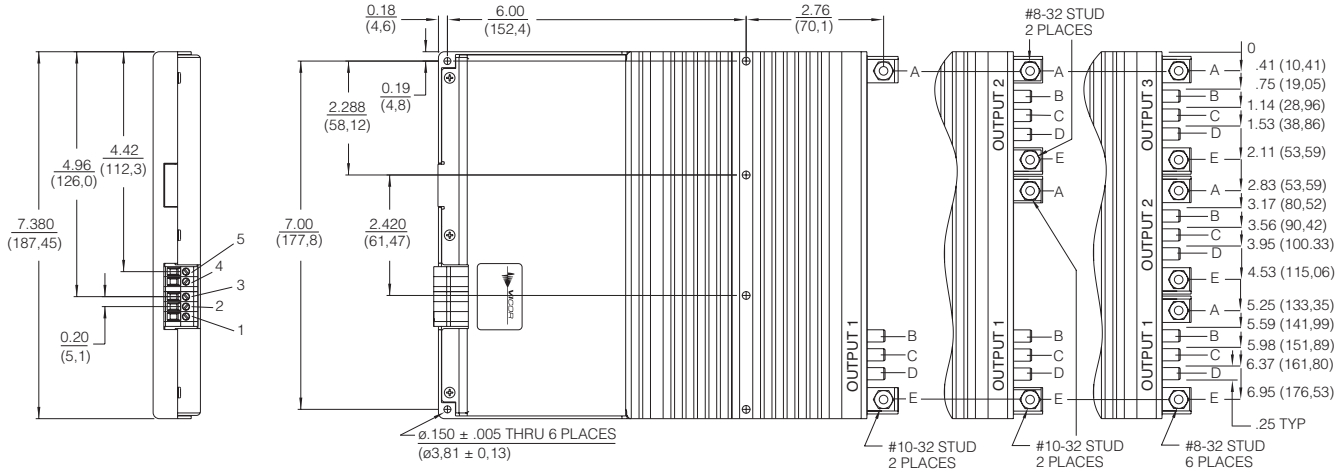
LC Series



MC, PC Series



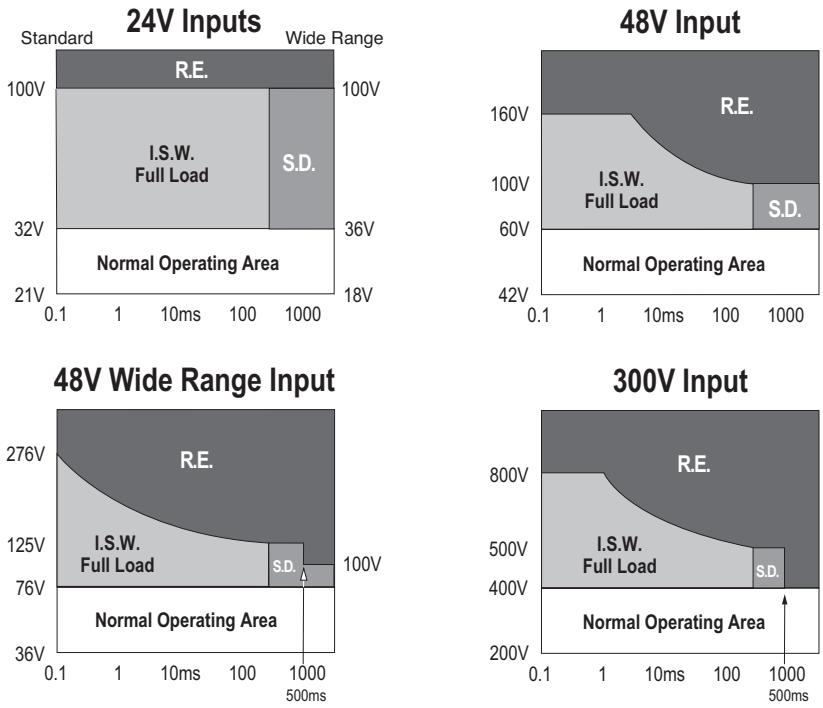
NC, QC, RC Series



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Long-Term Safe Operating Area Curves

1% duty cycle max., Z_S = 0.5Ω, for short duration transient capability refer to specifications.



I.S.W.: *Input surge withstand, no degradation of performance.* ***R.E.:*** *Ratings Exceeded.* ***S.D.:*** *Shutdown*

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