

### Single and Quad Output 100W Universal Input AC/DC Power Supplies

Unless stated otherwise, specifications are typical and rated at full load, nominal input voltage, convection cooling and 25°C.

#### INPUT

AC Input	Universal	90 to 264V
Efficiency		85%
Input Frequency		47— 63 Hz
Input Current	Full load at low line	2.4Arms, max
Inrush Current	High line	35A, max

#### OUTPUT

Output Power		100W max
Voltage Set Point		See table
Hold-Up Time	115V/230V	10ms/18ms
Voltage Set Point Accuracy	V1 V2, V3, V4	+3% +5%
Line Regulation	Low line to high line	0.3%
Load Regulation	Min to full load V1 V2, V3, V4	+3% +5%
Transient Response	50% to Full Load Voltage deviation Recovery time	10%, max <1ms
OVP	V1 only	6.2V ±0.4V
Overload Protection	Primary limited	135W, ±15W
Short Circuit Protection	Auto Recovery <6s	Short Term
Ripple and Noise		1%
Power Fail Signal <sup>2</sup>	TTL	1.5ms warning
Power Good Signal <sup>2</sup>	Delay after V1 high	100ms, min
Output Rise Time		<50ms

#### ENVIRONMENTAL

Operating Temperature		0 to 50°C
Storage Temperature		-40 to 85°C
Cooling	Convection	100W
Relative Humidity	Non condensing	95%, max
MTBF	MIL-HDBK-217F	>200,000 hrs

#### EMC AND SAFETY

CE Mark	Full compliance with the LVD	
EMC	EN55022-B, CISPR22-B, FCC Part 15 Class B, EN50082-1	
Harmonic Correction	EN61000-3-2 Class A	
Agency Approvals	VDE, UL, c-UL	
Safety Standards	IEC950, EN60950, UL1950, CSA C22.2 No. 950 Class 1 SELV	
Safety File numbers	VDE: 18934-3336 UL: E150565	



Model Number	Output	Nom Vout	Set Point	Output Current <sup>1</sup>	Min. Load
VLT100-1001 <sup>2</sup>	V1	12V	12V	7.5A	1.0A
VLT100-1002 <sup>2</sup>	V1	15V	15V	6.9A	0.5A
VLT100-1003 <sup>2</sup>	V1	24V	24V	4.2A	0.1A
VLT100-1004 <sup>2</sup>	V1	48V	48V	2.1A	0.2A
VLT100-4000	V1	5V	5.1V	12.0A	3.0A
	V2	12V	12.25V	4.0A	0.1A
	V3	-5V	-5.0V	0.8A	0.0A
	V4	-12V	-12.0V	0.8A	0.0A
VLT100-4001	V1	5V	5.1V	12.0A	3.0A
	V2	24V	24.5V	2.0A	0.1A
	V3	12V	12.0V	0.8A	0.0A
	V4	-12V	-12.0V	0.8A	0.0A
VLT100-4002	V1	5V	5.1V	12.0A	3.0A
	V2	15V	16.0V	3.0A	0.1A
	V3	-5V	-4.8V	0.8A	0.0A
	V4	-15V	-15.5V	0.8A	0.0A
VLT100-4003	V1	5V	5.1V	12.0A	3.0A
	V2	12V	12.0V	4.0A	0.1A
	V3	24V	24.5V	0.8A	0.0A
	V4	-12V	-12.0V	0.8A	0.0

<sup>1</sup>Maximum current per output channel. Do not exceed total output power rating

<sup>2</sup>Power fail and power good signal on quad output models only

#### MECHANICAL

AC Input Connector J1	Molex 3 position, 0.156 center header 26-60-4030 or equivalent
Ground Connector	Spade connector 0.25
DC Output Connector J2	Molex 12 position, 0.156 center header 26-60-4120 or equivalent
Output Connector J3	Molex 2 position, 0.100 center header 22-23-2021 or equivalent
Size	3x5x1.07 (76.2x126.9x27.2mm)
Weight	9oz (250g)

#### INPUT CONNECTOR J1

Pin 1	AC Neutral
Pin 2	AC Line
<b>Input Spade Connector</b>	
GND	AC Ground

#### OUTPUT CONNECTOR J2

	Single Output	Quad Output
Pins 1,2,3,4	V1	V1
Pins 5,6,7,8	DC Return	DC Return
Pins 9,10	NC	V2
Pin 11	NC	V3
Pin 12	NC	V4

#### OUTPUT CONNECTOR J3

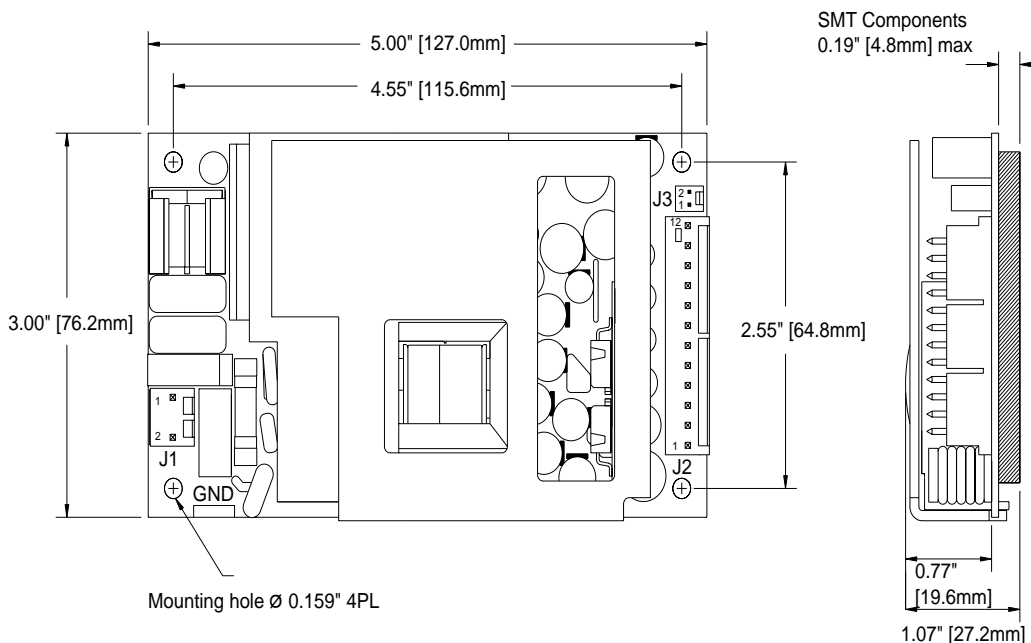
Pin 1	Common
Pin 2	Power Fail/Good



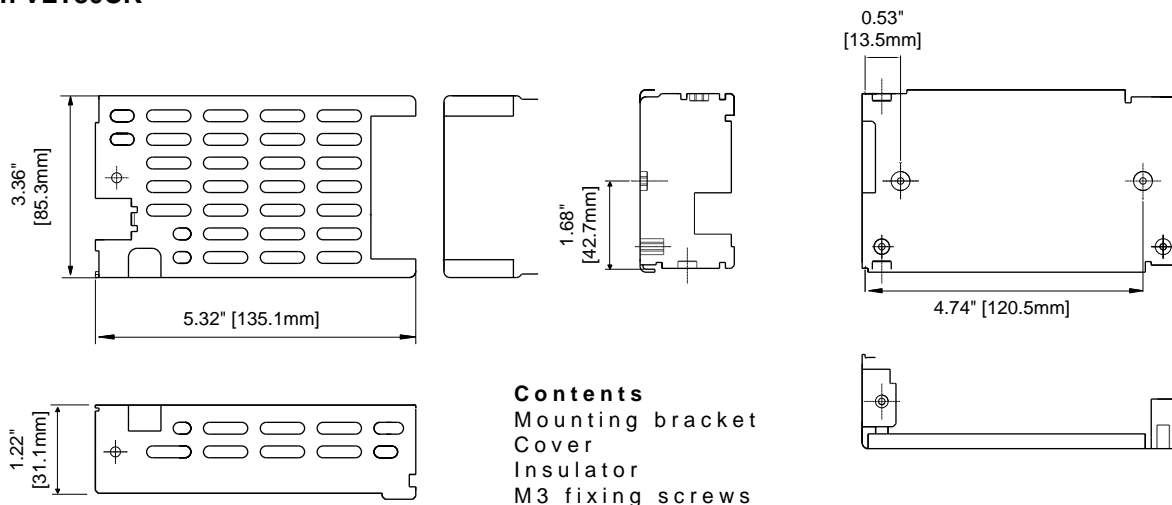
# EOS Corporation

## MECHANICAL SPECIFICATION

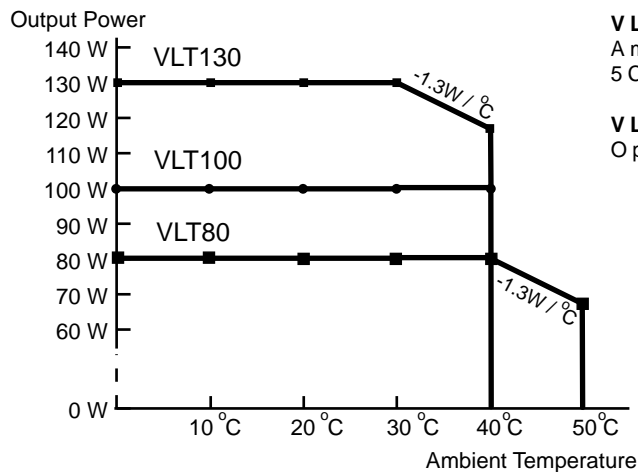
### Dimensions



### Cover Kit p/n VLT80CK



### VLT80CK Derating Guidelines



#### VLT80/MVLT80:

Ambient  $>40^\circ C$ , derate by  $1.3W/^\circ C$  to  $50^\circ C$ .  
5CFM fan recommended to circulate air.

#### VLT100:

Operating ambient temperature range  $0^\circ C$  to  $40^\circ C$ .

