

Single and Triple Output 40W 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	Auto Ranging	90 to 132V 180 to 264V
Efficiency	VLT40-3203	75%
	Other models	82%
Input Frequency		47—63 Hz
Input Current	Full load at low line	1.1Arms, max
Inrush Current	High line, cold start	75A, max

OUTPUT

Output Power		40W max
Voltage Set Point		See table
Hold-Up Time	115V/230V	6ms/15ms
Voltage Set Point Accuracy	V1	+3%
	V2 and V3	+5%
Line Regulation	Low line to high line	0.3%
Load Regulation	Min to 50% full load	
	V1	+3%
	V2 and V3	+5%
Transient Response	50% to Full Load Voltage Deviation	10%, max
	Recovery Time	<5 ms
OVP	V1 only 3.3V	3.95V, ±0.25V
	V1 only 5V	6.2V, ±0.4V
Overload Protection	Primary limited	Yes, 130%
Short Circuit Protection	Auto recovery <6s	Short Term
Ripple and Noise	3.3V and 5V	50mV
	V2 and V3	1%
Output Rise Time	All outputs	<100ms

ENVIRONMENTAL

Operating Temperature		0 to 50°C
Storage Temperature		-40 to 85°C
Cooling		Convection
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	
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	Voltage/Current *	Voltage Set Point	Min. Load
VLT40-1200	V1	5V@8.0A	5.1V	0.2A
VLT40-1201	V1	12V@3.5A	12V	0.1A
VLT40-1202	V1	15V@2.7A	15V	0.1A
VLT40-1203	V1	24V@1.7A	24V	0.05A
VLT40-3200	V1	5V@6.0A	5.2V	0.5A
	V2	12V@2.0A	12.5V	0.1A
	V3	-12V@0.5A	-12.8V	0.0A
VLT40-3201	V1	5V@6.0A	5.2V	0.5A
	V2	24V@1.0A	23.8V	0.1A
	V3	-12V@0.5A	-12.8V	0.0A
VLT40-3202	V1	5V@6.0A	5.2V	0.5A
	V2	15V@1.5A	14.6V	0.1A
	V3	-15V@0.5A	-16.0V	0.0A
VLT40-3203	V1	3.3V@6.0A	3.3V	0.5A
	V2	5V@3.0A	5.1V	0.1A
	V3	-12V@0.5A	-12.8V	0.0A

*Maximum current per output channel. Do not exceed total output power rating

MECHANICAL

AC Input Connector J1	Molex 3 position, 0.156 center header 26-60-4030-P or equivalent
Ground Connector	Spade connector, 0.25
DC Output Connector J2	Molex 6 position, 0.156 center header 26-60-4060-P or equivalent
Size	2x4x1.07 (50.8x101.6x27.2mm)
Weight	4oz (100g)

INPUT CONNECTOR J1

Pin 1	AC Neutral
Pin 2	AC Line

Input Spade Connector

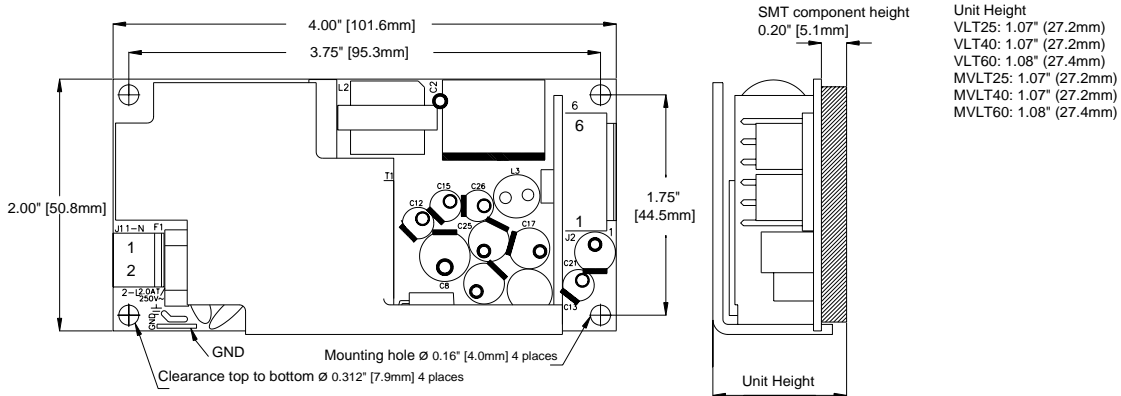
GND	AC Ground
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OUTPUT CONNECTOR J2

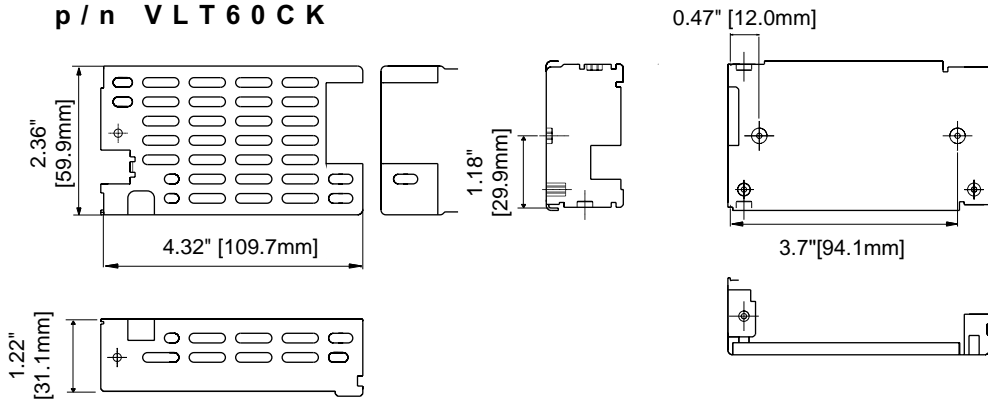
	Single Output	Triple Output
Pin 1	V1	V1
Pin 2	V1	V1
Pin 3	DC Return	DC Return
Pin 4	DC Return	DC Return
Pin 5	NC	V3
Pin 6	NC	V2

MECHANICAL SPECIFICATION

Dimensions



Cover Kit p/n VLT60CK



Contents
Mounting bracket
Cover
Insulator
M3 fixing screws

VLT60CK Derating Guidelines

VLT25/MVLT25: ambient $>40^{\circ}\text{C}$, derate by 1.3W/ $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$.
5CFM fan recommended to circulate air.

VLT40/MVLT40: ambient $>40^{\circ}\text{C}$, derate by 1.3W/ $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$.
5CFM fan recommended to circulate air.

VLT60/MVLT60: ambient $>40^{\circ}\text{C}$, derate by 1.3W/ $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$.
5CFM fan recommended to circulate air.

Output Power

