查询VKA100LS02供应商



VKA100xS

100 Watt Single Output Half Brick DC/DC Converter



- 18-36V and 33 75V Input Range
- High Efficiency: 87% Typical at 5V
- 100µS Transient Response 50-100% Load Step
- 420 kHz Fixed-Frequency Operation
- Remote Sense

- Operation to +100°C Baseplate Temperature
- Primary Remote On/Off, Choice of Pos/Neg Logic
- Adjustable Output Voltage
- Continuout Short-Circuit Protection
- Thermal Shutdown
- Case Ground Pin

The VKA100xS Series DC/DC converters present an economical and practical solution for distributed power system architectures which require high power density and efficiency while maintaining system modularity and

upgradeability. With the ability to operate over a wide input voltage range of 18 to 36 and 33 to 75 volts, these modules are ideal for use in battery backup applications common in todays' telecommunication and electronic data processing applications. The output is fully isolated from the input, allowing for a variety of polarity and grounding configurations.

The VKA100xS's proprietary control circuitry responds to 50-

100% load steps in 100µSeconds to within 1% nominal Vout.

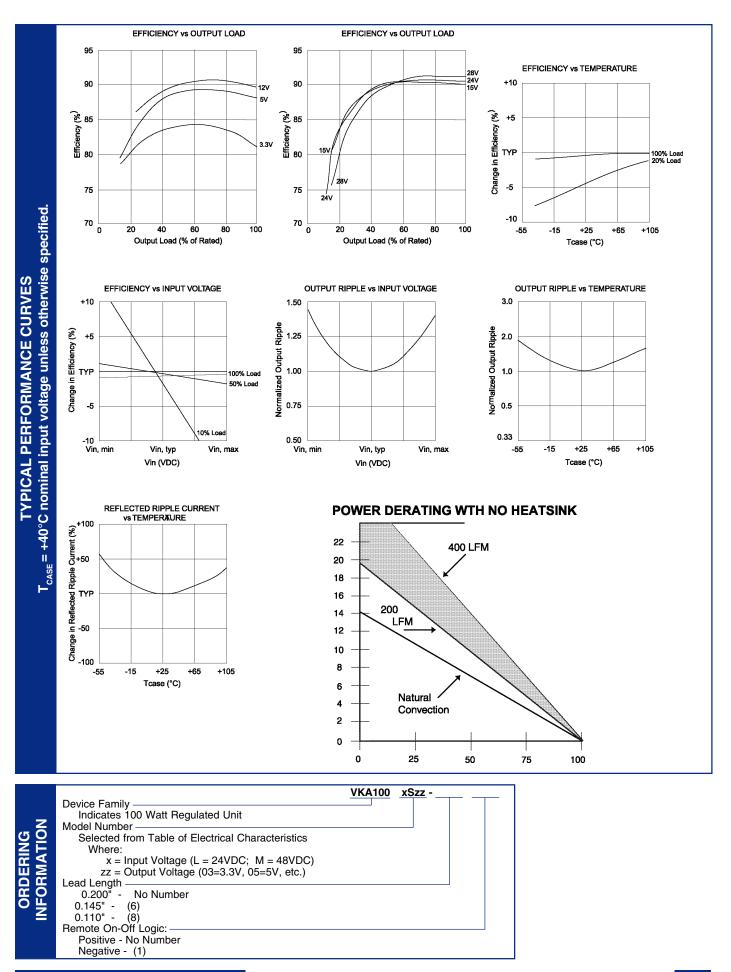
The patented fixed frequency architecture combined with surface mount technology results in a compact, efficient and reliable solution to DC/DC conversion requirements. Safety Per UL1950, EN 60950 and CSA 22.2 #234

	F	RODUCT SEL	ECTION CHART		
MODEL	INPUT	VOUT	ΙΟυΤ	EFFICIENCY	
	VOLTAGE	(VDC)	(A)	MIN	ТҮР
VKA100LS02		2.0V	20.0	75	76
VKA100LS02F		2.0V	30.0	73	74
VKA100LS2V5F		2.5V	30.0	75	76
VKA100LS03		3.3V	20.0	80	81
VKA100LS03F		3.3V	30.0	80	81
VKA100LS05	24VDC	5.0V	20.0	85	86
VKA100LS12		12.0V	8.3	87	88
VKA100LS15	(18-36)	15.0V	6.7	88	89
VKA100LS24		24.0V	4.2	89	90
VKA100MS02		2.0V	20.0	76	77
VKA100MS02F		2.0V	30.0	74	75
VKA100MS2V5F		2.5V	30.0	77	78
VKA100MS03		3.3V	20.0	81	82
VKA100MS03F		3.3V	30.0	81	82
VKA100MS05	48VDC	5.0V	20.0	86	87
VKA100MS12		12.0V	8.3	88	89
VKA100MS15	(33-75)	15.0V	6.7	89	90
VKA100MS24		24.0V	4.2	89	90

SPECIFICATIONS, ALL MODELS Specifications are at T_{CASE} = +40°C nominal input voltage unless otherwise specified.

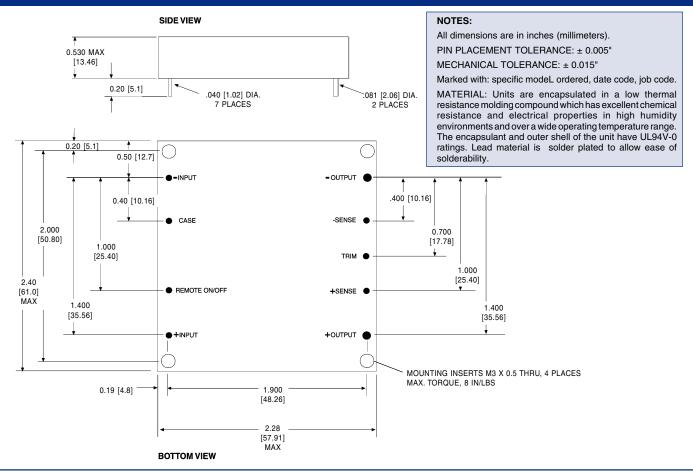
	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNITS
	Voltage Range VKA100LS		18	24	36	VDC
	VKA100LS		33	48	75	VDC
	Maximum Input Current			40	75	VDC
	VKA100LS	V _{IN} = 16VDC			7.4	А
	VKA100ES	$V_{IN} = 27VDC$			4.4	A
L.,	Reflected Ripple Current	Peak - Peak		20		mA
5	Input Ripple Rejection	DC to 1KHz	50	60		dB
INPUT	No Load Input Current LS/MS			50/100		mA
Ζ	Power Dissipation LS/MS					
	No Load			3.6/4.8		W
	Standby, Primary On/Off					
	Disabled LS/MS			0.18/0.4		W
	Inrush Charge	$V_{IN} = V_{IN}$ max.				
	VKA100LS				0.520	mC
	VKA100MS				0.360	mC
	Quiescent Operating Current					
	Primary On/Off Disabled			8	12	mA
	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNITS
	Rated Power		0		100	W
	Set point Accuracy				1	%
	Line Regulation	High Line to Low Line		0.02	0.05	%
	Load Regulation	No Load to Rated Load		0.02	0.05	%
5	Output Temperature Drift			±.02		%/°C
م	Output Ripple, p-p	DC to 20MHz BW		1%		V _{out} , Nom
					130%	I _{out} , Nom
F	Output Current Limit Inception				100 /8	OUT, NOIL
UT N	Output Current Limit Inception Output Short-Circuit Current (2)	test			110%	I _{OUT} , Nom
OUT	Output Short-Circuit Current (2) Output Overvoltage Limit	test		125%		I _{out} , Nom V
OUT	Output Short-Circuit Current (2)	test 50 to 100% Load Step		125%	110%	l _{out} , Nom V
OUT	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation	50 to 100% Load Step di/dt = 0.1A/µSec		2%	110%	I _{out} , Nom V V _{out} , Nom
OUT	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response	50 to 100% Load Step			110%	l _{out} , Nom V
DUT	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation	50 to 100% Load Step di/dt = 0.1A/µSec	MIN	2%	110%	I _{out} , Nom V V _{out} , Nom
OUT	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time	50 to 100% Load Step di/dt = 0.1A/μSec V _{our} , 1% of Nominal Output	MIN	2% 100	110% 135%	I _{ουτ} , Nom V V _{ουτ} , Nom μSec
DUT	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER	50 to 100% Load Step di/dt = 0.1A/μSec V _{our} , 1% of Nominal Output	MIN 1500	2% 100	110% 135%	I _{ουτ} , Nom V V _{ουτ} , Nom μSec
DUT	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION	50 to 100% Load Step di/dt = 0.1A/μSec V _{ουτ} , 1% of Nominal Output CONDITIONS		2% 100	110% 135%	I _{ουτ} , Nom V V μSec UNITS
DUT	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output	50 to 100% Load Step di/dt = 0.1A/μSec V _{ουτ} , 1% of Nominal Output CONDITIONS	1500	2% 100	110% 135%	I _{ουτ} , Nom V V _{ουτ} , Nom μSec UNITS VDC
OUT	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Baseplate	50 to 100% Load Step di/dt = 0.1A/μSec V _{ουτ} , 1% of Nominal Output CONDITIONS	1500 1500	2% 100	110% 135%	I _{ουτ} , Nom V V _{ουτ} , Nom μSec UNITS VDC VDC
DUT	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Baseplate Output to Baseplate Resistance Capacitance	50 to 100% Load Step di/dt = 0.1A/μSec V _{ουτ} , 1% of Nominal Output CONDITIONS	1500 1500 500	2% 100 TYP 2000	110% 135%	I _{ουτ} , Nom V μSec UNITS VDC VDC VDC VDC PF
DUT	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Baseplate Output to Baseplate Resistance	50 to 100% Load Step di/dt = 0.1A/μSec V _{ουτ} , 1% of Nominal Output CONDITIONS	1500 1500 500	2% 100 TYP	110% 135%	I _{ουτ} , Nom V V _{ουτ} , Nom μSec UNITS VDC VDC VDC VDC VDC MΩ
DUT	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Baseplate Output to Baseplate Output to Baseplate Resistance Capacitance Leakage Current GENERAL	50 to 100% Load Step di/dt = 0.1A/μSec V _{out} , 1% of Nominal Output CONDITIONS Peak Test for 2 Seconds	1500 1500 500	2% 100 TYP 2000	110% 135%	I _{ουτ} , Nom V μSec UNITS VDC VDC VDC VDC PF
DUT	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Baseplate Output to Baseplate Output to Baseplate Resistance Capacitance Leakage Current GENERAL Efficiency, Line, Load, Temp. (3)	50 to 100% Load Step di/dt = 0.1A/μSec V _{out} , 1% of Nominal Output CONDITIONS Peak Test for 2 Seconds	1500 1500 500 10	2% 100 TYP 2000 180	110% 135% MAX	I _{ουτ} , Nom V V _{ουτ} , Nom μSec UNITS VDC VDC VDC VDC MΩ pF μA, rms
	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Output Input to Baseplate Output to Baseplate Output to Baseplate Resistance Capacitance Leakage Current GENERAL Efficiency, Line, Load, Temp. (3) Switching Frequency	50 to 100% Load Step di/dt = 0.1A/μSec V _{out} , 1% of Nominal Output CONDITIONS Peak Test for 2 Seconds	1500 1500 500	2% 100 TYP 2000	110% 135% MAX 440	I _{ουτ} , Nom V V _{ουτ} , Nom μSec UNITS VDC VDC VDC VDC MΩ pF μA, rms
	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Baseplate Output to Baseplate Capacitance Leakage Current GENERAL Efficiency, Line, Load, Temp. (3) Switching Frequency Remote Sense Compensation	50 to 100% Load Step di/dt = $0.1A/\mu$ Sec V_{OUT} , 1% of Nominal Output CONDITIONS Peak Test for 2 Seconds V _{ISO} = 240VAC, 60Hz	1500 1500 500 10	2% 100 TYP 2000 180 420	110% 135% MAX	I _{ουτ} , Nom V V _{ουτ} , Nom μSec UNITS VDC VDC VDC VDC MΩ pF μA, rms KHz V
	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Baseplate Output to Baseplate Output to Baseplate Capacitance Leakage Current GENERAL Efficiency, Line, Load, Temp. (3) Switching Frequency Remote Sense Compensation Output Voltage Adjust Range	50 to 100% Load Step di/dt = 0.1A/μSec V _{out} , 1% of Nominal Output CONDITIONS Peak Test for 2 Seconds	1500 1500 500 10	2% 100 TYP 2000 180	110% 135% MAX 440	I _{ουτ} , Nom V V _{ουτ} , Nom μSec UNITS VDC VDC VDC VDC MΩ pF μA, rms
	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Baseplate Output to Baseplate Output to Baseplate Capacitance Leakage Current GENERAL Efficiency, Line, Load, Temp. (3) Switching Frequency Remote Sense Compensation Output Voltage Adjust Range Remote On/Off Control Inputs	50 to 100% Load Step di/dt = $0.1A/\mu$ Sec V_{OUT} , 1% of Nominal Output CONDITIONS Peak Test for 2 Seconds $V_{ISO} = 240VAC$, 60Hz 12 V & higher(4)	1500 1500 500 10	2% 100 TYP 2000 180 420	110% 135% MAX 440	I _{ουτ} , Nom V V _{ουτ} , Nom μSec UNITS VDC VDC VDC VDC MΩ pF μA, rms KHz V
	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Baseplate Output to Baseplate Output to Baseplate Capacitance Leakage Current GENERAL Efficiency, Line, Load, Temp. (3) Switching Frequency Remote Sense Compensation Output Voltage Adjust Range Remote On/Off Control Inputs Primary	50 to 100% Load Step di/dt = $0.1A/\mu$ Sec V_{OUT} , 1% of Nominal Output CONDITIONS Peak Test for 2 Seconds V _{ISO} = 240VAC, 60Hz	1500 1500 500 10	2% 100 TYP 2000 180 420	110% 135% MAX 440 0.5	I _{ουτ} , Nom V V _{ουτ} , Nom μSec UNITS VDC VDC VDC MΩ pF μA, rms KHz V V V V
	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Baseplate Output to Baseplate Capacitance Leakage Current GENERAL Efficiency, Line, Load, Temp. (3) Switching Frequency Remote Sense Compensation Output Voltage Adjust Range Remote On/Off Control Inputs Primary Sink Current-Logic Low	50 to 100% Load Step di/dt = $0.1A/\mu$ Sec V_{OUT} , 1% of Nominal Output CONDITIONS Peak Test for 2 Seconds $V_{ISO} = 240VAC$, 60Hz 12 V & higher(4)	1500 1500 500 10	2% 100 TYP 2000 180 420	110% 135% MAX 440 0.5	I _{ουτ} , Nom V V _{ουτ} , Nom μSec UNITS VDC VDC VDC VDC MΩ pF μA, rms KHz V V V _{ουτ} , Nom
	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Baseplate Output to Baseplate Capacitance Leakage Current GENERAL Efficiency, Line, Load, Temp. (3) Switching Frequency Remote Sense Compensation Output Voltage Adjust Range Remote On/Off Control Inputs Primary Sink Current-Logic Low Vlow	50 to 100% Load Step di/dt = $0.1A/\mu$ Sec V_{OUT} , 1% of Nominal Output CONDITIONS Peak Test for 2 Seconds $V_{ISO} = 240VAC$, 60Hz 12 V & higher(4)	1500 1500 500 10	2% 100 TYP 2000 180 420	110% 135% MAX 440 0.5 1.0 0.4	I _{ουτ} , Nom V V _{ουτ} , Nom μSec UNITS VDC VDC VDC MΩ pF μA, rms KHz V V V V
	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Baseplate Output to Baseplate Output to Baseplate Capacitance Leakage Current GENERAL Efficiency, Line, Load, Temp. (3) Switching Frequency Remote Sense Compensation Output Voltage Adjust Range Remote On/Off Control Inputs Primary Sink Current-Logic Low Vlow Vhigh0	50 to 100% Load Step di/dt = $0.1A/\mu$ Sec V_{OUT} , 1% of Nominal Output CONDITIONS Peak Test for 2 Seconds V _{ISO} = 240VAC, 60Hz 12 V & higher(4) Open Collector/Drain	1500 1500 500 10	2% 100 TYP 2000 180 420 -50% / +25%	110% 135% MAX 440 0.5 1.0 0.4 Open Collector	I _{ουτ} , Nom V V _{ουτ} , Nom μSec UNITS VDC VDC VDC MΩ pF μA, rms KHz V V V _{ουτ} , Nom
	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Baseplate Output to Baseplate Output to Baseplate Capacitance Leakage Current GENERAL Efficiency, Line, Load, Temp. (3) Switching Frequency Remote Sense Compensation Output Voltage Adjust Range Remote On/Off Control Inputs Primary Sink Current-Logic Low Vlow Vlow Vhigh0 Turn-on Time	50 to 100% Load Step di/dt = $0.1A/\mu$ Sec V_{OUT} , 1% of Nominal Output CONDITIONS Peak Test for 2 Seconds $V_{ISO} = 240VAC$, 60Hz 12 V & higher(4)	1500 1500 500 10	2% 100 TYP 2000 180 420	110% 135% MAX 440 0.5 1.0 0.4 Open Collector 12.5	I _{ουτ} , Nom V V _{ουτ} , Nom μSec UNITS VDC VDC VDC MΩ pF μA, rms KHz V V V _{ουτ} , Nom mA V
	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Baseplate Output to Baseplate Output to Baseplate Capacitance Leakage Current GENERAL Efficiency, Line, Load, Temp. (3) Switching Frequency Remote Sense Compensation Output Voltage Adjust Range Remote On/Off Control Inputs Primary Sink Current-Logic Low Vlow Vhigh0 Turn-on Time	50 to 100% Load Step di/dt = $0.1A/\mu$ Sec V_{OUT} , 1% of Nominal Output CONDITIONS Peak Test for 2 Seconds V _{ISO} = 240VAC, 60Hz 12 V & higher(4) Open Collector/Drain	1500 1500 500 10	2% 100 TYP 2000 180 420 -50% / +25%	110% 135% MAX 440 0.5 1.0 0.4 Open Collector	I _{ουτ} , Nom V V _{ουτ} , Nom μSec UNITS VDC VDC VDC MΩ pF μA, rms KHz V V V _{ουτ} , Nom
	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Baseplate Output to Baseplate Output to Baseplate Capacitance Leakage Current GENERAL Efficiency, Line, Load, Temp. (3) Switching Frequency Remote Sense Compensation Output Voltage Adjust Range Remote On/Off Control Inputs Primary Sink Current-Logic Low Vlow Vlow Vhigh0 Turn-on Time Weight	50 to 100% Load Step di/dt = $0.1A/\mu$ Sec V_{OUT} , 1% of Nominal Output CONDITIONS Peak Test for 2 Seconds $V_{ISO} = 240VAC$, 60Hz 12 V & higher(4) Open Collector/Drain Within 1% of Rated Output	1500 1500 500 10 400	2% 100 TYP 2000 180 420 -50% / +25%	110% 135% MAX 440 0.5 1.0 0.4 Open Collector 12.5 85 (3.0)	I _{ουτ} , Nom V V _{ουτ} , Nom μSec UNITS VDC VDC VDC MΩ pF μA, rms KHz V V V _{ουτ} , Nom mA V
	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Baseplate Output to Baseplate Output to Baseplate Capacitance Leakage Current GENERAL Efficiency, Line, Load, Temp. (3) Switching Frequency Remote Sense Compensation Output Voltage Adjust Range Remote On/Off Control Inputs Primary Sink Current-Logic Low Vlow Vlow Vhigh0 Turn-on Time Weight TEMPERATURE Operation/Specification	50 to 100% Load Step di/dt = $0.1A/\mu$ Sec V_{OUT} , 1% of Nominal Output CONDITIONS Peak Test for 2 Seconds V _{ISO} = 240VAC, 60Hz 12 V & higher(4) Open Collector/Drain Within 1% of Rated Output Case Temperature	1500 1500 500 10 400 -40	2% 100 TYP 2000 180 2000 180 -50% / +25% 10.0 +25	110% 135% MAX 440 0.5 1.0 0.4 Open Collector 12.5 85 (3.0) +100	I _{ουτ} , Nom V V _{ουτ} , Nom μSec UNITS VDC VDC VDC VDC MΩ pF μA, rms KHz V V V _{ουτ} , Nom mA V V mSec g (oz.)
	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Baseplate Output to Baseplate Output to Baseplate Capacitance Leakage Current GENERAL Efficiency, Line, Load, Temp. (3) Switching Frequency Remote Sense Compensation Output Voltage Adjust Range Remote On/Off Control Inputs Primary Sink Current-Logic Low Vlow Vlow Vhigh0 Turn-on Time Weight TEMPERATURE Operation/Specification Storage	50 to 100% Load Step di/dt = $0.1A/\mu$ Sec V_{OUT} , 1% of Nominal Output CONDITIONS Peak Test for 2 Seconds V _{ISO} = 240VAC, 60Hz 12 V & higher(4) Open Collector/Drain Within 1% of Rated Output Case Temperature Case Temperature	1500 1500 10 400 -40 -55	2% 100 TYP 2000 180 420 -50% / +25%	110% 135% MAX 440 0.5 1.0 0.4 Open Collector 12.5 85 (3.0) +100 +125	I _{ουτ} , Nom V V _{ουτ} , Nom μSec UNITS VDC VDC VDC MΩ pF μA, rms KHz V V V _{ουτ} , Nom mA V V mSec g (oz.) °C
GENERAL	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Baseplate Output to Baseplate Capacitance Leakage Current GENERAL Efficiency, Line, Load, Temp. (3) Switching Frequency Remote Sense Compensation Output Voltage Adjust Range Remote On/Off Control Inputs Primary Sink Current-Logic Low Vlow Vlow Vhigh0 Turn-on Time Weight TEMPERATURE Operation/Specification Storage Shutdown Temperature	50 to 100% Load Step di/dt = 0.1A/µSec V _{OUT} , 1% of Nominal Output CONDITIONS Peak Test for 2 Seconds V _{ISO} = 240VAC, 60Hz 12 V & higher(4) Open Collector/Drain Within 1% of Rated Output Case Temperature Case Temperature Case Temperature Case Temperature	1500 1500 500 10 400 -40	2% 100 TYP 2000 180 2000 180 420 -50% / +25% 10.0 10.0 +25 +25	110% 135% MAX 440 0.5 1.0 0.4 Open Collector 12.5 85 (3.0) +100	I _{ουτ} , Nom V V _{ουτ} , Nom μSec UNITS VDC VDC VDC MΩ pF μA, rms KHz V V _{ουτ} , Nom mA V mSec g (oz.) °C °C
	Output Short-Circuit Current (2) Output Overvoltage Limit Transient Response Peak Deviation Settling Time PARAMETER ISOLATION Input to Output Input to Baseplate Output to Baseplate Output to Baseplate Capacitance Leakage Current GENERAL Efficiency, Line, Load, Temp. (3) Switching Frequency Remote Sense Compensation Output Voltage Adjust Range Remote On/Off Control Inputs Primary Sink Current-Logic Low Vlow Vlow Vhigh0 Turn-on Time Weight TEMPERATURE Operation/Specification Storage	50 to 100% Load Step di/dt = 0.1A/µSec V _{OUT} , 1% of Nominal Output CONDITIONS Peak Test for 2 Seconds V _{ISO} = 240VAC, 60Hz 12 V & higher(4) Open Collector/Drain Within 1% of Rated Output Case Temperature Case Temperature Case Temperature Case Temperature	1500 1500 10 400 -40 -55	2% 100 TYP 2000 180 2000 180 -50% / +25% 10.0 +25	110% 135% MAX 440 0.5 1.0 0.4 Open Collector 12.5 85 (3.0) +100 +125	I _{ουτ} , Nom V V _{ουτ} , Nom μSec UNITS VDC VDC VDC MΩ pF μA, rms KHz V V V _{ουτ} , Nom mA V V mSec g (oz.) °C

NOTES: (1) See Typical Performance Curves, page 3
(2) Continuous Mode
(3) See graphs for Efficiency vs. Output Load, V_{IN}, T_{CASE}
(4) 3.3V Models Limited in Trim Down Range
(5) Consult Factory for Details



Product: www.cdpowerelectronics.com

MECHANICAL



OUTPUT ADJUST VOLTAGE

This feature allows the user to accurately adjust the module's output voltage set point to a specified level. This is achieved by connecting a resistor or potentiometer from the TRIM terminal to either the +Vout terminal (for increased Vout) or the -Vout terminal (for decreased Vout). The formulae below describe the trim resistor value to obtain a Vout change of Δ %. Vo is output voltage prior to adjustment (3.3V, 5V, 12V, 15V, or 24V).

Radj - up =
$$\left(\frac{Vo(100 + \Delta\%)}{1.225\Delta\%} - \frac{(100 + 2\Delta\%)}{\Delta\%}\right) k\Omega$$

Radj - down = $\left(\frac{100}{\Delta\%} - 2\right) k\Omega$

OVP NOTE

Special attention should be given to the peak voltage deviation during a dynamic load step when trimming the output above the original set point to avoid tripping the overvoltage protection circuit. Should an OVP condition occur, the converter will go into a latch condition and must be externally reset before it will return to normal operation.

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