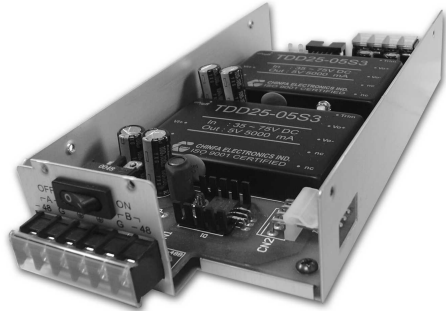


SDD50-0434A

DC - DC CONVERTER
50W



SPECIFICATION

All Specifications Typical At Nominal Line, Full Load, 25°C Unless Otherwise Noticed

GENERAL

Characteristics	Conditions	min.	typ.	max.	unit
Switching frequency	V_i nom, I_o nom		200		KHz
Isolation voltage	Input / Output	500			VDC
Isolation resistance	Input / Output, @ 500VDC	100			M Ω
Ambient temperature	Operating at V_i nom, I_o nom	- 25		+ 71	°C
Storage temperature	Non operational	- 40		+ 85	°C
Dimension	L250 x W96 x H38				mm
Cooling	Free air convection				
Case material	Metal				

INPUT SPECIFICATIONS

Characteristics	Conditions	min.	typ.	max.	unit
Input voltage range	T_{amin} ... $T_{a max}$, I_o nom	36	48	75	VDC
No load input current	V_i nom, $I_o = 0$		50		mA
Input voltage w/o damage	I_o nom			80	VDC
Startup voltage	I_o nom		32		VDC
Input filter	Pi type				

SPECIFICATION

All Specifications Typical At Nominal Line, Full Load, 25°C Unless Otherwise Noticed

OUTPUT SPECIFICATIONS

Characteristics	Conditions	min.	typ.	max.	unit	
Output voltage	Io = 0 ...nom	Vo 1	4.9	5	5.1	V
		Vo 2	- 4.9	- 5	- 5.1	V
Output current	Vi nom	Io 1			5	A
		Io 2			5	A
Output voltage accuracy	Vi nom ...Io nom			± 2	%	
Minimum load	Vi nom	0			%	
Line regulation	Io nom, Vi min ...Vi max			± 1	%	
Load regulation	Vi nom, Io 0 ...Io nom			± 2	%	
Transient recovery time	Vi nom, Io 0 ...1/2 Io nom		500		μ S	
Temperature coefficient	Vi nom, Io nom			0.02	% / °C	
Ripple & noise	Vi nom, Io nom, BW = 20MHz			40	mV	
Efficiency	Vi nom, Io nom, Po / Pi	Up to 78%				

CONTROL AND PROTECTION

Remote ON/OFF	NO : opened or 8 ~ 10VDC applied, referenced to input GND OFF : - 0.3 ~ 2VDC applied, referenced to input GND
Input short circuit	Fuse
Output short circuit	Continuous

PHYSICAL CHARACTERISTICS

SIZE	250 x 96 x 38 mm 9.84 x 3.78 x 1.49 inches
CASE MATERIAL	Metal
WEIGHT	450 g