

VS010 SERIES 1W UNREGULATED

FEATURES

- SINGLE IN LINE PACKAGE
- 1W UNREGULATED OUTPUT POWER
- 100% BURN IN
- NO HEATSINK REQUIRED
- INTERNAL SMD TECHNOLOGY
- UL 94V-0 PACKAGE MATERIAL
- 3 YEARS WARRANTY



OUTPUT SPECIFICATIONS		INPUT SPECIFICATIONS		GENERAL SPECIFICATIONS		
Voltage Set-point Accuracy	+/-2% max	Input Voltage Range	+/-10% max	Efficiency	70% min	
Temperature Coefficient	+/-0.05%/°C	Input Filter	Capacitor Type	Isolation Voltage	1500-3000 VDC	
Ripple & Noise(20MHz BW)	100mVp-p max	Protection	Fuse Recommended	In to Out	1500 VDC min	
Line Regulation	+/-1.2% max	ENVIRONMENTAL SPECIFICATIONS		Separate	Out to Out	500 VDC min
Load Regulation	+/-8% max			Operating Temperature	-40°C to +71°C	Isolation Resistance
Minimum Load	20% of Full Load	Storage Temperature	-55°C to +125°C	Isolation Capacitance	80pF max	
Short Circuit Protection	Momentary	Humidity	95% max	Switching Frequency	100KHz min	
		Case Material	Non-Conductive Plastic	MTBF	>2,000,000 Hours	

● 1500VDC ISOLATION

MODEL ¹ NUMBER	INPUT (VDC)	OUTPUT		EFF (%)	PACKAGE
		VOLT. (VDC)	CURRENT (mA)		
VS010-0503.3S□	5	3.3	300	73	A,B
VS010-0505S□	5	5	200	71	A,B,E
VS010-0509S□	5	9	111	78	A,B,E
VS010-0512S□	5	12	84	79	A,B,E
VS010-0515S□	5	15	67	79	A,B,E
VS010-0505D□	5	+/-5	+/-100	72	A,B
VS010-0509D□	5	+/-9	+/-56	77	A,B
VS010-0512D□	5	+/-12	+/-42	79	A,B
VS010-0515D□	5	+/-15	+/-34	77	A,B
VS010-0909S□	9	9	111	75	A,B
VS010-1203.3S□	12	3.3	300	74	A,B
VS010-1205S□	12	5	200	74	A,B,E
VS010-1209S□	12	9	111	78	A,B,E
VS010-1212S□	12	12	84	82	A,B,E
VS010-1215S□	12	15	67	82	A,B,E
VS010-1205D□	12	+/-5	+/-100	74	A,B
VS010-1212D□	12	+/-12	+/-42	79	A,B
VS010-1215D□	12	+/-15	+/-34	83	A,B

VS010-2403.3SC	24	3.3	300	73	C
VS010-2405SC	24	5	200	73	C
VS010-2409SC	24	9	111	75	C
VS010-2412SC	24	12	84	77	C
VS010-2415SC	24	15	67	80	C
VS010-2424SC	24	24	42	77	C
VS010-2405DC	24	+/-5	+/-100	73	C
VS010-2412DC	24	+/-12	+/-42	77	C
VS010-2415DC	24	+/-15	+/-34	80	C

● DUAL SEPARATE OUTPUT

MODEL NUMBER	INPUT (VDC)	OUTPUT				EFF (%)	PACK.
		VOLTAGE (VDC)		CURRENT (mA)			
		OUT1	OUT2	OUT1	OUT2		
VS010-050503.3	5	+5	+3.3	+100	+152	70	F
VS010-050505	5	+5	+5	+100	+100	78	F
VS010-050509	5	+5	+9	+100	+56	80	F
VS010-050512	5	+5	+12	+100	+42	80	F
VS010-050515	5	+5	+15	+100	+34	80	F
VS010-120505	12	+5	+5	+100	+100	70	F
VS010-120509	12	+5	+9	+100	+56	80	F
VS010-120512	12	+5	+12	+100	+42	82	F
VS010-120515	12	+5	+15	+100	+34	80	F
VS010-241212	24	+12	+12	+41	+41	80	F

¹ VS010-****□

□:PACKAGE CODE

● 3000VDC ISOLATION

MODEL NUMBER	INPUT (VDC)	OUTPUT		EFF (%)	PACKAGE
		VOLTAGE (VDC)	CURRENT (mA)		
VS010-03.305S-3K	3.3	5	200	80	D
VS010-0503.3S-3K	5	3.3	300	73	B
VS010-0505S-3K	5	5	200	71	B
VS010-0509S-3K	5	9	111	78	B
VS010-0512S-3K	5	12	84	78	B
VS010-0515S-3K	5	15	67	79	B
VS010-0505D-3K	5	+/-5	+/-100	73	B
VS010-0512D-3K	5	+/-12	+/-42	79	B
VS010-0515D-3K	5	+/-15	+/-34	79	B
VS010-1203.3S-3K	12	3.3	300	74	B
VS010-1205S-3K	12	5	200	74	B
VS010-1209S-3K	12	9	111	78	B

VS010-1212S-3K	12	12	84	82	B
VS010-1215S-3K	12	15	67	81	B
VS010-1205D-3K	12	+/-5	+/-100	74	B
VS010-1212D-3K	12	+/-12	+/-42	83	B
VS010-1215D-3K	12	+/-15	+/-34	83	B
VS010-2403.3S-3K	24	3.3	300	73	D
VS010-2405S-3K	24	5	200	73	D
VS010-2409S-3K	24	9	111	75	D
VS010-2412S-3K	24	12	84	77	D
VS010-2415S-3K	24	15	67	80	D
VS010-2405D-3K	24	+/-5	+/-100	73	D
VS010-2412D-3K	24	+/-12	+/-42	77	D
VS010-2415D-3K	24	+/-15	+/-34	80	D

● MECHANICAL DIMENSIONS

PACKAGE "A"	PACKAGE "B"	PACKAGE "C"
<p>All dimensions are in mm[inches]</p>	<p>All dimensions are in mm[inches]</p>	<p>All dimensions are in mm[inches]</p>

PIN	1	2	4	5	6	1	2	5	6	7	1	2	4	5	6
SINGLE	+Vin	-Vin	-Vout	NP	+Vout	+Vin	-Vin	-Vout	NP	+Vout	+Vin	-Vin	-Vout	NP	+Vout
DUAL	+Vin	-Vin	-Vout	Com.	+Vout	+Vin	-Vin	-Vout	Com.	+Vout	+Vin	-Vin	-Vout	Com.	+Vout

PACKAGE "D"	PACKAGE "E"	PACKAGE "F"
<p>All dimensions are in mm[inches]</p>	<p>All dimensions are in mm[inches]</p>	<p>All dimensions are in mm[inches]</p>

PIN	1	2	5	6	7	1	2	4	5	6	1	2	4	5	6	7
SINGLE	+Vin	-Vin	-Vout	NP	+Vout	+Vin	-Vin	NP	-Vout	+Vout						
DUAL	+Vin	-Vin	-Vout	Com.	+Vout						+Vin	-Vin	+5V/Vout 1	-5V/Vout 1	+Vout 2	-Vout 2