

VSF50-S SPECIFICATIONS

	MODEL	VSF50-05	VSF50-09	VSF50-12	VSF50-15	VSF50-24
INPUT	VOLTAGE, FREQUENCY	AC100-120V / 200-240V (AC85 ~ 132V / AC170 ~ 264V or 245 ~ 370V), 50/60Hz (47~ 440Hz) User Selectable				
	CURRENT [A]	110V	1.2 (I _o =100%)			
		220V	0.6 (I _o =100%)			
	EFFICIENCY [%]	110V	70 typ	71 typ	72 typ	75 typ
220V		70 typ	73 typ	74 typ	77 typ	78 typ
INRUSH CURRENT		20A typ(AC IN 110V, I _o =100%), 40A typ(AC IN 220V, I _o =100%) at cold start.				
OUTPUT	VOLTAGE [V]	5	9	12	15	24
	CURRENT [A]	10	5.5	4.2	3.3	2.1
	REGULATION, LINE [mV]	25 Max	45 Max	60 Max	75 Max	120 Max
	REGULATION, LOAD [mV]	50 Max	90 Max	120 Max	150 Max	240 Max
	RIPPLE [mVp-p]	50 Max	90 Max	120 Max	150 Max	240 Max
	RIPPLE, NOISE [mVp-p]	100 Max	140 Max	170 Max	200 Max	290 Max
	TEMPERATURE DRIFT 0~+50°C [mV]	75 Max	135 Max	180 Max	225 Max	360 Max
	RISE TIME [ms]	100 Max (AC IN 85V I _o =100%)				
HOLDING TIME [ms]	10 typ (AC IN 85V I _o =100%)					
PROTECTION CIRCUIT	OVER CURRENT PROTECTION	Works at over 110% of rating and recovers automatically				
	OVER VOLTAGE PROTECTION	Works at 115 ~ 140% of rating				
ELECTRICALLY ISOLATED	INPUT-OUTPUT	AC 1,500V 1 minute current 10mA, DC 500V 100MΩ (At room temperature & Humidity)				
	INPUT-CASE, FG	AC 1,500V 1 minute current 10mA, DC 500V 100MΩ (At room temperature & Humidity)				
	OUTPUT-CASE, FG	AC 500V 1 minute current 100mA, DC 500V 100MΩ (At room temperature & Humidity)				
ENVIRONMENT	OPERATING TEMP AND HUMID	-10 ~ +50°C, 30 ~ 90% RH(Non condensing)				
	STORAGE TEMP AND HUMID	-20 ~ +75°C, 20 ~ 90% RH(Non condensing)				
	VIBRATION	10 ~ 55Hz at 2G, 3 minutes period, 30 minutes along X, Y and Z axis				
	IMPACT	10G for 20ms once on each X, Y and Z axis				
SAFETY	SAFETY REGULATION	-				
	LINE CONDUCTED RF VOLTAGE	Built to meet EN 55022-A				

VSF50A-S SPECIFICATIONS

	MODEL	VSF50A-05	VSF50A-09	VSF50A-12	VSF50A-15	VSF50A-24
INPUT	VOLTAGE, FREQUENCY	AC100-120V / 200-240V (AC90 ~ 132V / 180 ~ 264V or DC240 ~ 370V), 50/60Hz (47 ~ 440Hz) User Selectable				
	CURRENT [A]	110V	0.4 (I _o =100%)			
		220V	0.2 (I _o =100%)			
	EFFICIENCY [%]	110V	70 typ	73 typ	74 typ	77 typ
220V		70 typ	73 typ	74 typ	77 typ	78 typ
INRUSH CURRENT		20A typ(AC IN 110V, I _o =100%), 40A typ(AC IN 220V, I _o =100%) at cold start.				
OUTPUT	VOLTAGE [V]	5	9	12	15	24
	CURRENT [A]	10	5.6	4.2	3.3	2.1
	REGULATION, LINE [mV]	25 Max	45 Max	60 Max	75 Max	120 Max
	REGULATION, LOAD [mV]	50 Max	90 Max	120 Max	150 Max	240 Max
	RIPPLE [mVp-p]	50 Max	90 Max	120 Max	150 Max	240 Max
	RIPPLE, NOISE [mVp-p]	100 Max	140 Max	170 Max	200 Max	290 Max
	TEMPERATURE DRIFT 0~+50°C [mV]	75 Max	135 Max	180 Max	225 Max	360 Max
	RISE TIME [ms]	1000 Max (AC IN 110V/220V, I _o =100%)				
HOLDING TIME [ms]	10 typ (AC IN 110V/220V, I _o =100%)					
PROTECTION CIRCUIT	OVER CURRENT PROTECTION	Works at over 110% of rating and recovers automatically				
	OVER VOLTAGE PROTECTION	Works at 115 ~ 140% of rating				
ELECTRICALLY ISOLATED	INPUT-OUTPUT	AC 3,000V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)				
	INPUT-CASE, FG	AC 2,000V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)				
	OUTPUT-CASE, FG	AC 500V 1 minute current 100mA, DC 500V 100MΩ (At room temperature & Humidity)				
ENVIRONMENT	OPERATING TEMP AND HUMID	-10 ~ +50°C, 20 ~ 90% RH(Non condensing)				
	STORAGE TEMP AND HUMID	-20 ~ +75°C, 20 ~ 90% RH(Non condensing)				
	VIBRATION	10 ~ 55Hz at 1G, 3 minutes period, 30 minutes along X, Y and Z axis				
	IMPACT	10G for 20ms once on each X, Y and Z axis				
SAFETY	SAFETY REGULATION	Complied with UL60950-1, EN60950-1				
	LINE CONDUCTED RF VOLTAGE	Complied with FCC Part15, VCCI-A, CISPR22-A, EN55022-A				