



①Series name  
②Output wattage  
③Output voltage

MODEL	VAF503	VAF505	VAF512	VAF524
MAX OUTPUT WATTAGE[W]	3.3	5.0	5.4	5.28
DC OUTPUT	VOLTAGE[V]	3.3	5	12
	CURRENT[A]	1.0 (Peak 1.2)	1.0 (Peak 1.2)	0.45 (Peak 0.54)
			0.45 (Peak 0.54)	0.22 (Peak 0.27)

SPECIFICATIONS

	MODEL	VAF503	VAF505	VAF512	VAF524	
INPUT	VOLTAGE[V]	AC85 - 264 1 φ or DC110 - 370				
	CURRENT[A]	ACIN 100V	0.15typ (Io=100%)			
		ACIN 200V	0.10typ (Io=100%)			
	FREQUENCY[Hz]	47 - 440 or DC				
	INRUSH CURRENT[A]	ACIN 100V	15typ (Io=100%)			
		ACIN 200V	30typ (Io=100%)			
LEAKAGE CURRENT[ma]	0.5max (60Hz, According to IEC60950 and DEN-AN)					
EFFICIENCY[%]		68typ	77typ	78typ	81typ	
OUTPUT	VOLTAGE[V]	3.3	5	12	24	
	CURRENT[A]	*1 1.0 (Peak 1.2)	1.0 (Peak 1.2)	0.45 (Peak 0.54)	0.22 (Peak 0.27)	
	LINE REGULATION[mV]	20max	20max	48max	96max	
	LOAD REGULATION[mV]	40max	40max	100max	150max	
	RIPPLE[mVp-p]	0 to +55°C *2	80max	80max	120max	150max
		-10 - 0°C *2	140max	140max	160max	200max
		Io=100 - 120% *2	180max	180max	200max	240max
	RIPPLE NOISE[mVp-p]	0 to +55°C *2	120max	120max	150max	200max
		-10 - 0°C *2	160max	160max	180max	230max
		Io=100 - 120% *2	200max	200max	220max	260max
	TEMPERATURE COEFFICIENT[mV]	-10 to +55°C	100max	50max	120max	300max
	DRIFT[mV]	*3	20max	20max	48max	96max
	OUTPUT VOLTAGE SETTING[V]	3.19 - 3.47	4.90 - 5.30	11.40 - 12.60	23.0 - 25.0	
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed				
START-UP TIME[ms]	700max (ACIN 85V, Io=100%)					
HOLD-UP TIME[ms]	10typ (ACIN 85V, Io=100%), 20typ (ACIN 100V, Io=100%)					
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 125% of rating and recovers automatically				
	OVERVOLTAGE PROTECTION	Works over 115% of rating (By zener diode clamping)				
ISOLATION	INPUT-OUTPUT	AC3.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)				
	INPUT-FG	AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)				
ENVIRONMENT	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)				
	OPERATING TEMP., HUMID. AND ALTITUDE	-10 to +71°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max				
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max				
	VIBRATION	19.6m/s <sup>2</sup> 10 - 55Hz, 3minutes period, 60minutes each along X, Y and Z axis (Non operating)				
SAFETY AND NOISE REGULATIONS	IMPACT	196.1m/s <sup>2</sup> 11ms, once each X, Y and Z axis (Non operating)				
	AGENCY APPROVALS	UL1950, C-UL, EN60950, VDE0160 Complies with DEN-AN and IEC60950				
	CONDUCTED NOISE	Complies with FCC-B, VCCI-B, CISPR22-B, EN55022-B				
OTHERS	CASE SIZE/WEIGHT	32X20X72.5mm (W×H×D) / 30g max				
	COOLING METHOD	Convection				

\*1 Peak load for 10sec. or less in acceptable if the total wattage is less than the rated wattage.  
\*2 This is the value that measured on measuring board with capacitor of 22 μF. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).  
\*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.