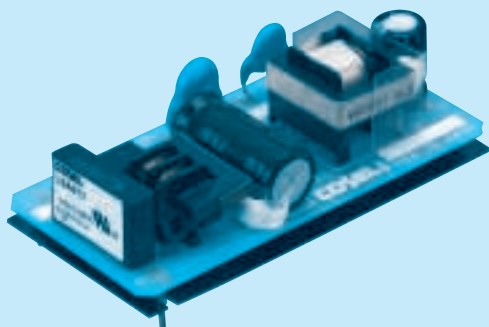


VAA5

VAA 5 05

① ② ③

c 
RoHS

① Series name
② Output wattage
③ Output voltage

MODEL	VAA505	VAA512
MAX OUTPUT WATTAGE[W]	5.0	5.4
DC OUTPUT	VOLTAGE[V]	5
	CURRENT[A]	1.0
		12
		0.45

SPECIFICATIONS

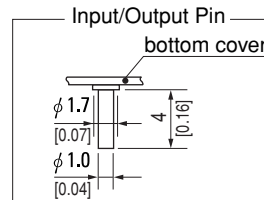
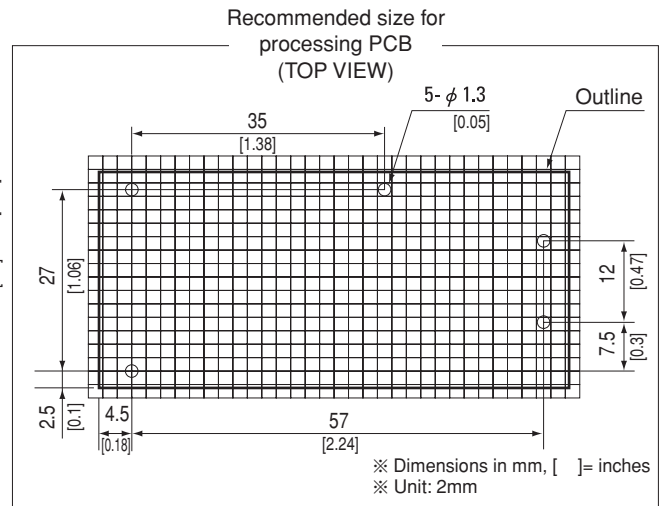
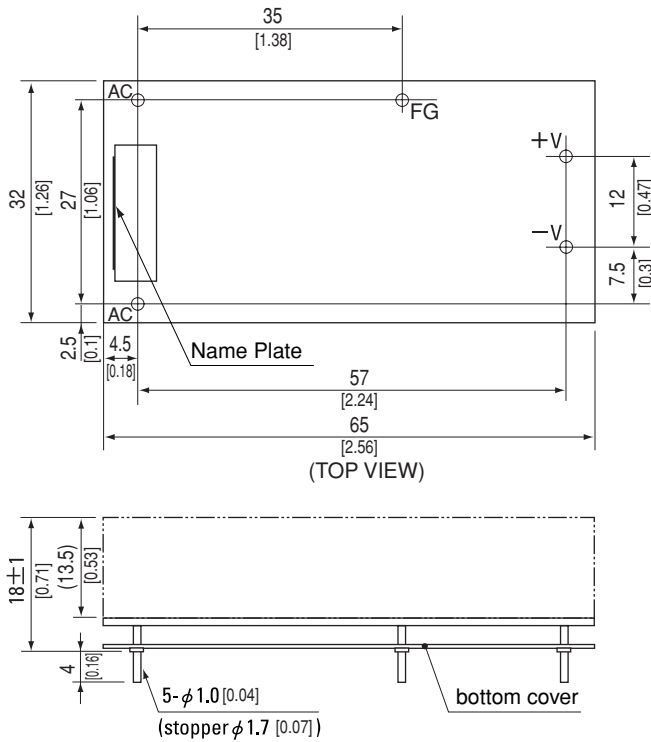
VAA	MODEL	VAA505	VAA512
INPUT	VOLTAGE[V]	AC85 - 132 1 ϕ or DC110 - 170	
	CURRENT[A]	*1 0.13typ (ACIN 100V, Io=100%)	
	EFFICIENCY[%]	*1 75typ	77typ
	FREQUENCY[Hz]	47 - 440 or DC	
	INRUSH CURRENT[A]	*1 15typ (ACIN 100V, Io=100%)	
	LEAKAGE CURRENT[ma]	0.5max (60Hz According to UL and DEN-AN)	
OUTPUT	VOLTAGE[V]	5	12
	CURRENT[A]	1.0	0.45
	LINE REGULATION[mV]	20max	48max
	LOAD REGULATION[mV]	40max	100max
	RIPPLE[mVp-p]	0 to +55°C *2 80max	120max
		-10 - 0°C *2 140max	160max
	RIPPLE NOISE[mVp-p]	0 to +55°C *2 120max	150max
		-10 - 0°C *2 160max	180max
	TEMPERATURE COEFFICIENT[mV]	-10 to +55°C 50max	120max
	DRIFT[mV]	*3 20max	48max
	OUTPUT VOLTAGE ADJUSTMENT RANGE	Fixed	
	START-UP TIME[ms]	200max (ACIN 85V, Io=100%)	
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically	
	OVERVOLTAGE PROTECTION	Works over 115% of rating (by zener diode clamping)	
ISOLATION	INPUT-OUTPUT	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)	
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)	
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)	
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-10 to +70°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 ² 10 - 55Hz, 3minutes period, 60minutes each along X, Y and Z axis (Non operating)	
	IMPACT	196.1m/s ² 11ms, once each X, Y and Z axis (Non operating)	
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, C-UL Complies with DEN-AN (External Fuse is required)	
	CONDUCTED NOISE	Complies with FCC-B, additional capacitors required for meeting VCCI class B	
OTHERS	CASE SIZE/WEIGHT	32 × 18 × 65mm [1.26 × 0.71 × 2.56 inches] (W × H × D) / 30g max	
	COOLING METHOD	Convection	

*1 Rated input/output Ta=25°C

*2 This is the value that measured on measuring board with capacitor of 22 μ F. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).

*3 Drift is the charge 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.

External view

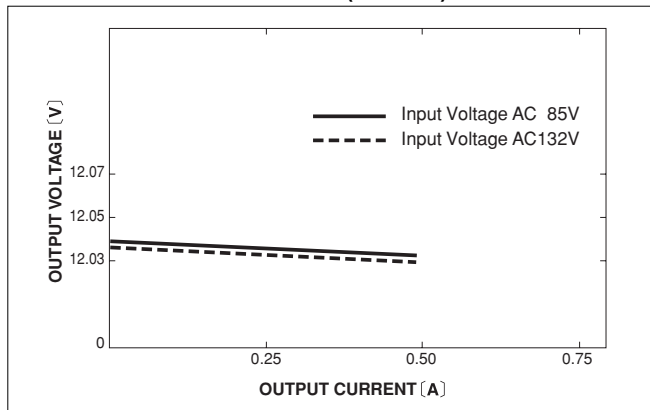


- ※ Weight: 30g max
- ※ Tolerance: ± 0.5 [± 0.02]
- ※ PCB material: CEM-3
- ※ PCB thickness: $t=1.0$ [0.04]
- ※ Pin material: CPW with solder plated
- ※ Recommended hole dia. to PCB: $\phi 1.3$
- ※ Dimensions in mm, [] = inches

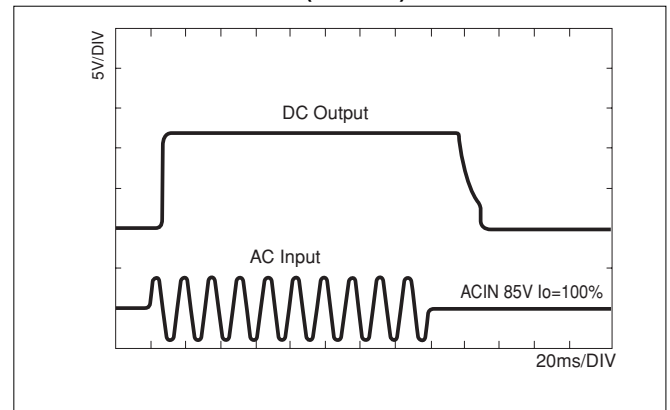
VAA

Performance data

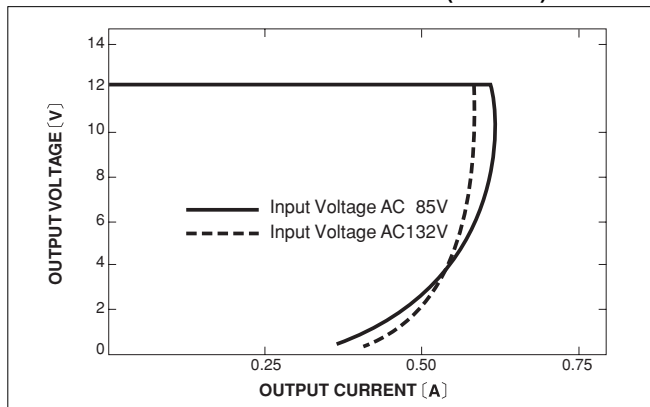
■ STATIC CHARACTERISTICS (VAA512)



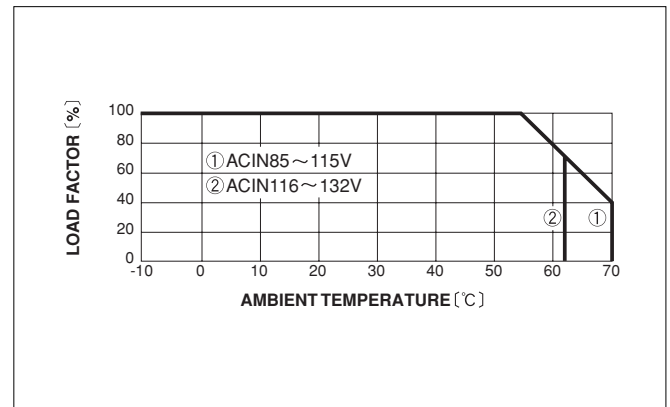
■ RISE TIME & FALL TIME (VAA512)



■ OVERCURRENT CHARACTERISTICS (VAA512)



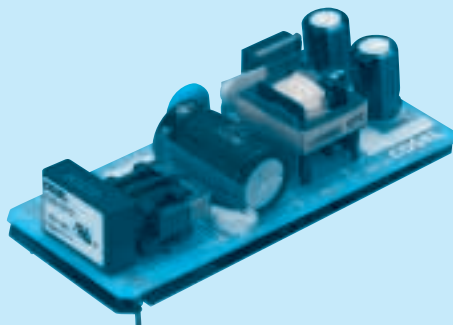
■ DERATING CURVE



VAA10

VAA 10 05

① ② ③

c^{us}
RoHS

① Series name
② Output wattage
③ Output voltage

MODEL	VAA1005	VAA1012
MAX OUTPUT WATTAGE[W]	10.0	10.8
DC OUTPUT	VOLTAGE[V] 5 CURRENT[A] 2.0	12 0.9

SPECIFICATIONS

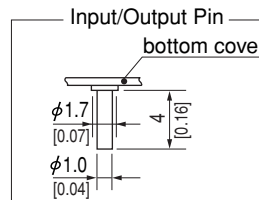
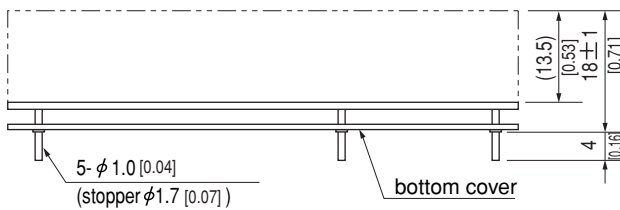
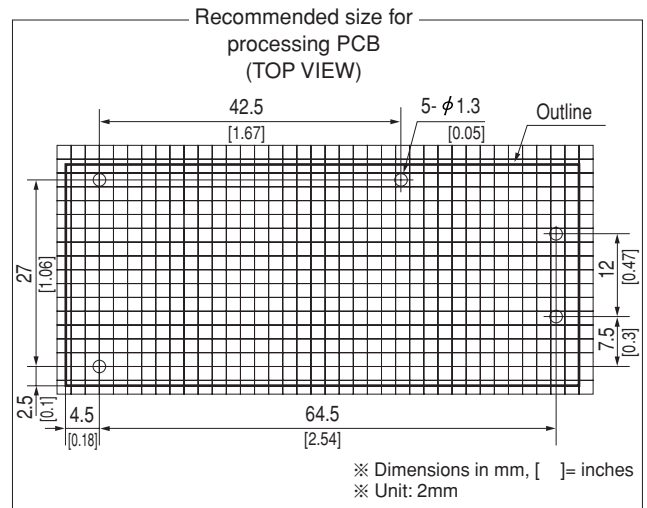
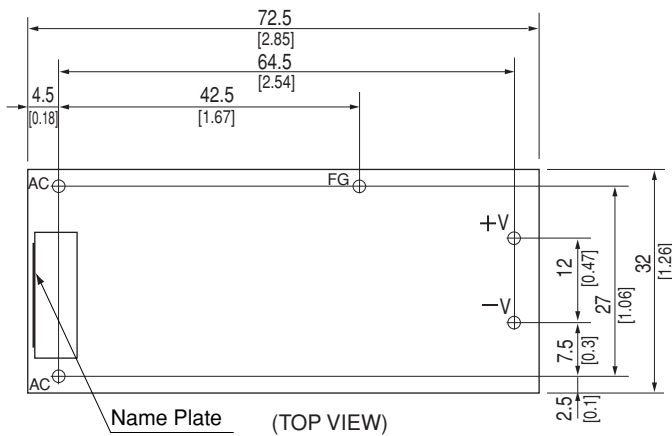
VAA	MODEL	VAA1005	VAA1012
INPUT	VOLTAGE[V]	AC85 - 132 1 ϕ or DC110 - 170	
	CURRENT[A]	*1 0.3typ (ACIN 100V, Io=100%)	
	EFFICIENCY[%]	*1 76typ	77typ
	FREQUENCY[Hz]	47 - 440 or DC	
	INRUSH CURRENT[A]	*1 15typ (ACIN 100V, Io=100%)	
	LEAKAGE CURRENT[ma]	0.5max (60Hz According to UL and DEN-AN)	
OUTPUT	VOLTAGE[V]	5	12
	CURRENT[A]	2.0	0.9
	LINE REGULATION[mV]	20max	48max
	LOAD REGULATION[mV]	40max	100max
	RIPPLE[mVp-p]	0 to +55°C *2 80max -10 - 0°C *2 140max	120max 160max
	RIPPLE NOISE[mVp-p]	0 to +55°C *2 120max -10 - 0°C *2 160max	150max 180max
	TEMPERATURE COEFFICIENT[mV]	-10 to +55°C 50max	120max
	DRIFT[mV]	*3 20max	48max
	OUTPUT VOLTAGE ADJUSTMENT RANGE	Fixed	
	START-UP TIME[ms]	200max (ACIN 85V, Io=100%)	
	HOLD-UP TIME[ms]	10typ (ACIN 85V, Io=100%), 20typ (ACIN 100V, Io=100%)	
	OUTPUT VOLTAGE SETTING[V]	*1 4.90 - 5.30	11.40 - 12.60
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically	
	OVERVOLTAGE PROTECTION	Works over 115% of rating (by zener diode clamping)	
ISOLATION	INPUT-OUTPUT	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)	
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)	
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)	
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-10 to +70°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 ² 10 - 55Hz, 3minutes period, 60minutes each along X, Y and Z axis (Non operating)	
	IMPACT	196.1m/s ² 11ms, once each X, Y and Z axis (Non operating)	
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, C-UL Complies with DEN-AN (External Fuse is required)	
	CONDUCTED NOISE	Complies with FCC-B, additional capacitors required for meeting VCCI class B	
OTHERS	CASE SIZE/WEIGHT	32 × 18 × 72.5mm [1.26 × 0.71 × 2.85 inches] (W × H × D) / 35g max	
	COOLING METHOD	Convection	

*1 Rated input/output Ta=25°C

*2 This is the value that measured on measuring board with capacitor of 22 μ F. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).

*3 Drift is the charge 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.

External view

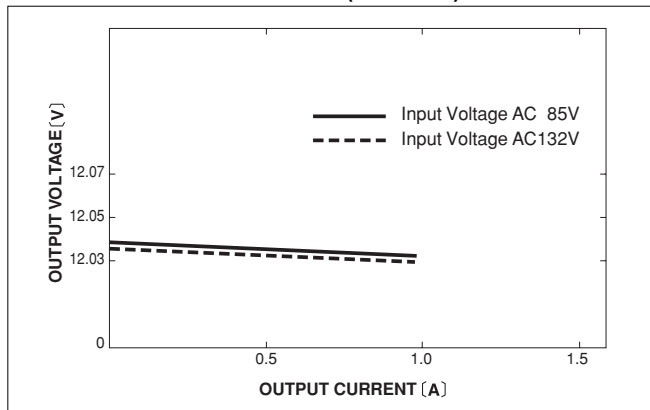


- ※ Weight: 35g max
- ※ Tolerance: ± 0.5 [± 0.02]
- ※ PCB material: CEM-3
- ※ PCB thickness: $t=1.0$ [0.04]
- ※ Pin material: CPW with solder plated
- ※ Recommended hole dia. to PCB: $\phi 1.3$
- ※ Dimensions in mm, [] = inches

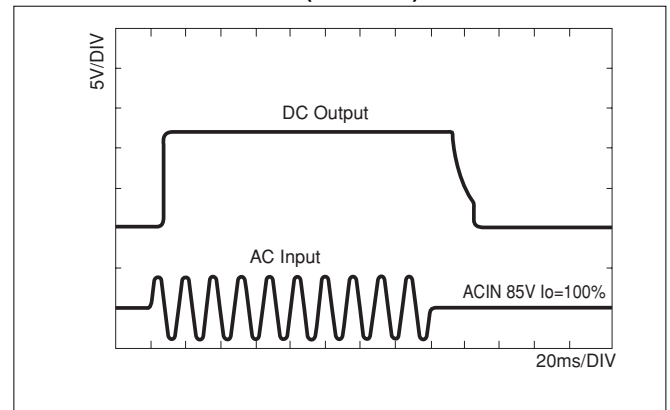
VAA

Performance data

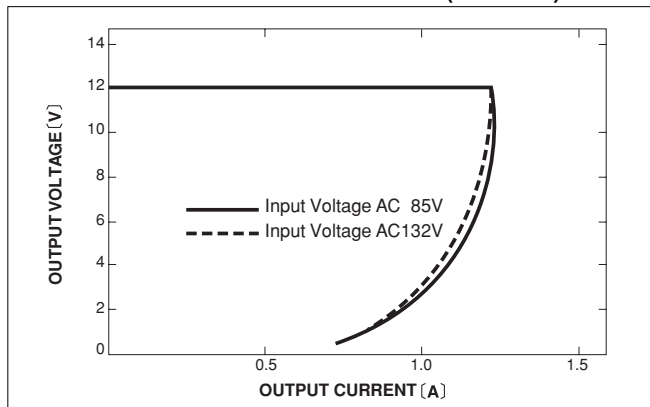
■ STATIC CHARACTERISTICS (VAA1012)



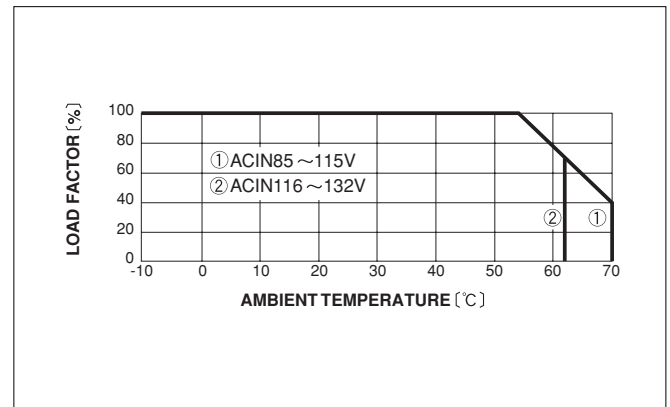
■ RISE TIME & FALL TIME (VAA1012)



■ OVERCURRENT CHARACTERISTICS (VAA1012)



■ DERATING CURVE



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Cosel:

[VAA505](#) [VAA1012](#) [VAA1005](#) [VAA512](#)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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