COSEL AC-DC Power Supplies PCB Mount type

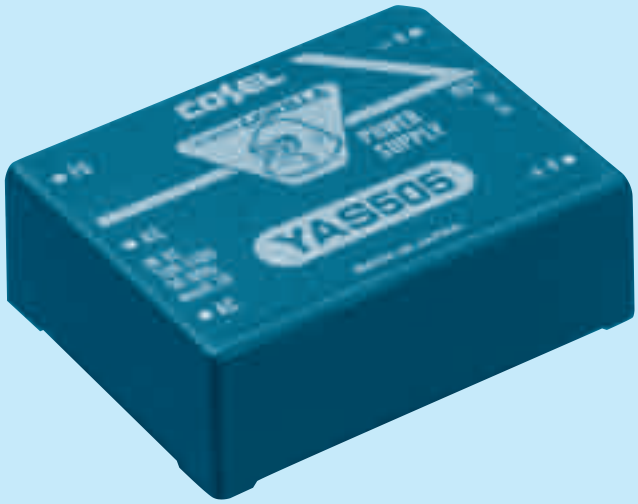
YAS5

Ordering information

YA	S	5	05	E	
①	②	③	④	⑤	

①Series name
②Single output
③Output wattage
④Output voltage
⑤UL recognized,TÜV approved CSA certified:E

RoHS



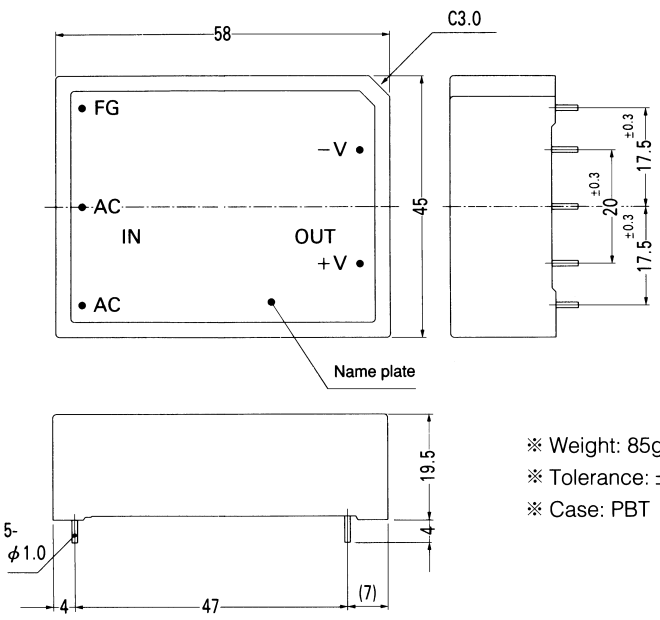
MODEL	YAS505	YAS512
MAX OUTPUT WATTAGE[W]	5.0	5.4
DC OUTPUT	5V 1.0A	12V 0.45A

SPECIFICATIONS

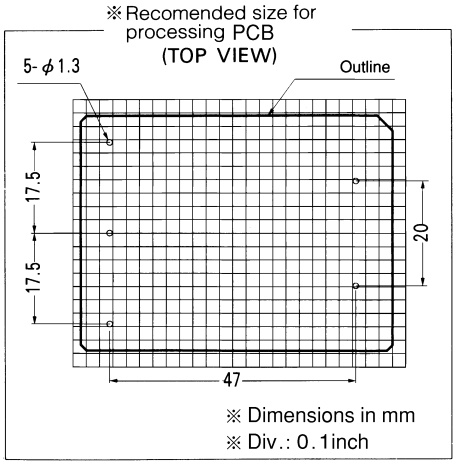
	MODEL		YAS505	YAS512
INPUT	VOLTAGE[V]		AC85 - 264 1φ or DC110 - 370	
	CURRENT[A]	ACIN 200V	0.07typ (Io=100%)	
	FREQUENCY[Hz]		47 - 440 or DC	
	EFFICIENCY[%]		65typ	67typ
	INRUSH CURRENT[A]	ACIN 100V	20typ (Io=100%)	
		ACIN 200V	40typ (Io=100%)	
OUTPUT	VOLTAGE[V]		5	12
	CURRENT[A]		1	0.45
	LINE REGULATION[mV]		20max	48max
	LOAD REGULATION[mV]		40max	100max
	RIPPLE[mVp-p]	*1	80max	120max
	RIPPLE NOISE[mVp-p]	*1	120max	150max
	TEMPERATURE REGULATION[mV]	0 to +55℃	50max	150max
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		Fixed	
	OUTPUT VOLTAGE SETTING[%]		±5max (Rated input/output, Ta=25℃)	
	HOLD-UP TIME[ms]		10typ (ACIN 85V, Io=100%)	
PROTECTION CIRCUIT	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically	
ISOLATION	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 15mA, DC500V 50MΩmin (At Room Temperature)	
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)	
	OUTPUT-FG		AC500V 1minute, Cutoff current=100mA, DC500V 50MΩmin (At Room Temperature)	
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +70℃, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max	
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max	
	VIBRATION		10 - 55Hz, 98.0m/s² (10G), 3minutes period, 60minutes each along X, Y and Z axis	
	IMPACT		490.3m/s² (50G), 11ms, once each X, Y and Z axis	
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS		UL60950-1, EN60950-1, EN50178, CSA C22.2 No.60950-1 Complies with IEC60950-1	
	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, Additional capacitors required for meeting CISPR22-B, EN55022-B (External Fuse is required)	

*1 Measured by 20MHz oscilloscope.
* Parallel operation with other model is not possible.

External view

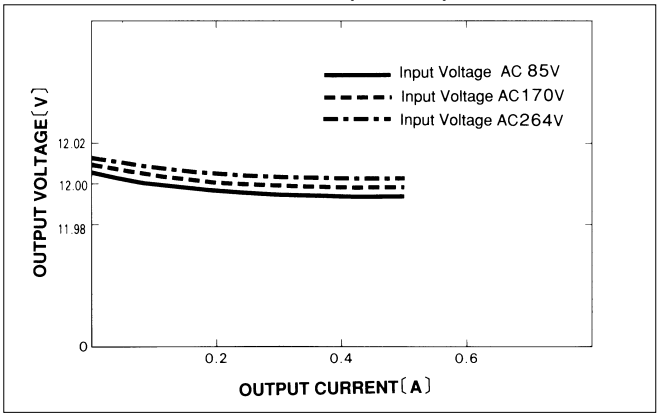


※ Weight: 85g or less
※ Tolerance: ±0.5
※ Case: PBT

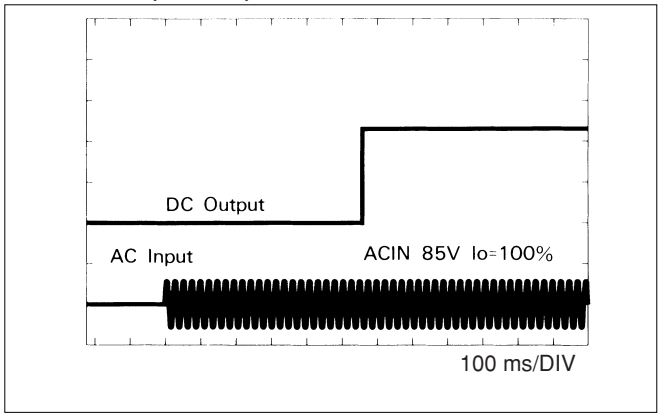


Performance data

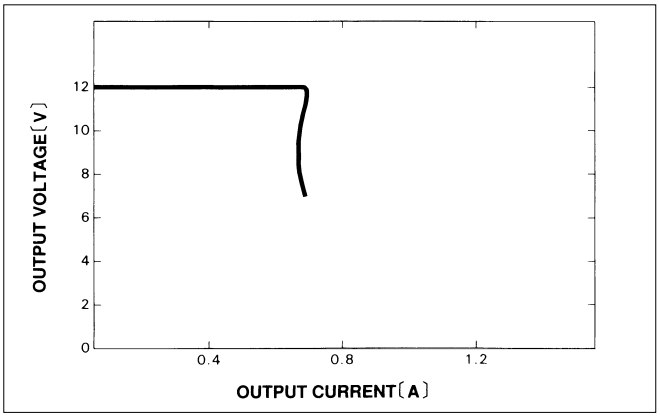
■STATIC CHARACTERISTICS (YAS512)



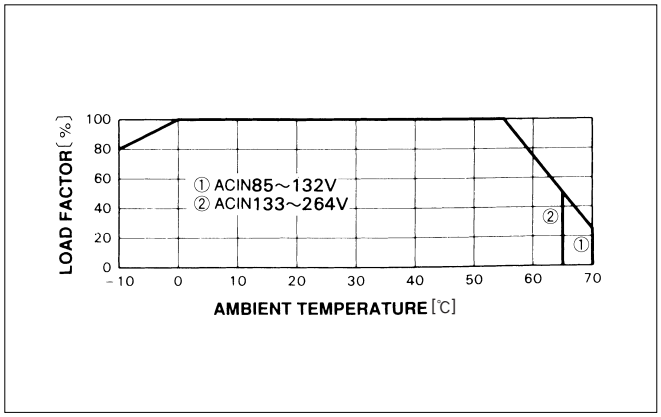
■RISE TIME (YAS512)



■OVERCURRENT CHARACTERISTICS (YAS512)



■DERATING CURVE



YA

COSEL AC-DC Power Supplies PCB Mount type

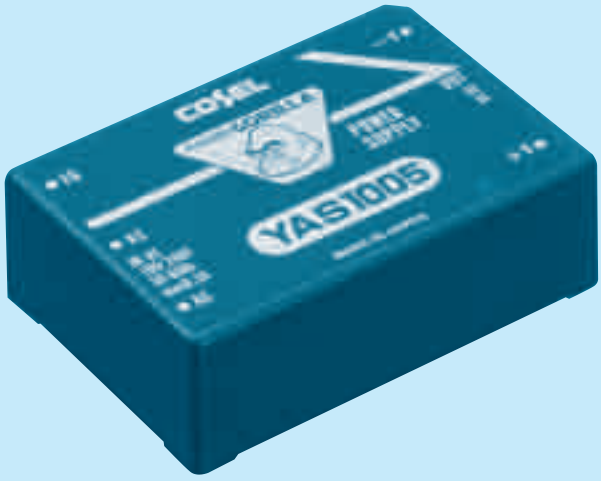
YAS10

Ordering information

YA	S	10	05	E	
①	②	③	④	⑤	

①Series name
②Single output
③Output wattage
④Output voltage
⑤UL recognized,TÜV approved CSA certified:E

RoHS



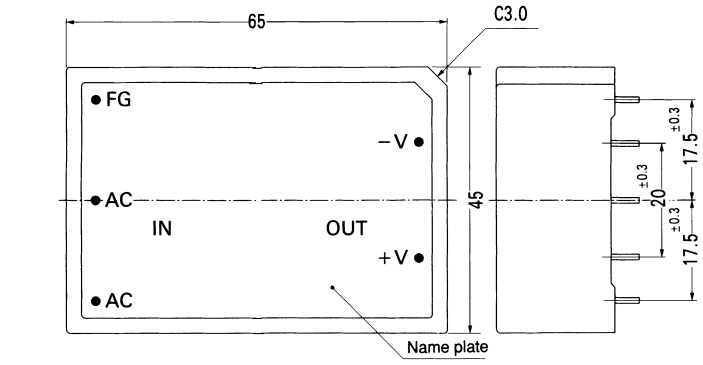
MODEL	YAS1005	YAS1012
MAX OUTPUT WATTAGE[W]	10.0	10.8
DC OUTPUT	5V 2.0A	12V 0.9A

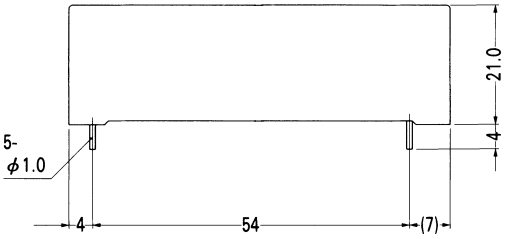
SPECIFICATIONS

	MODEL		YAS1005	YAS1012
INPUT	VOLTAGE[V]		AC85 - 264 1φ or DC110 - 370	
	CURRENT[A]	ACIN 200V	0.14typ (Io=100%)	
	FREQUENCY[Hz]		47 - 440 or DC	
	EFFICIENCY[%]		70typ	72typ
	INRUSH CURRENT[A]	ACIN 100V	20typ (Io=100%)	
		ACIN 200V	40typ (Io=100%)	
OUTPUT	VOLTAGE[V]		5	12
	CURRENT[A]		2	0.9
	LINE REGULATION[mV]		20max	48max
	LOAD REGULATION[mV]		40max	100max
	RIPPLE[mVp-p]	*1	80max	120max
	RIPPLE NOISE[mVp-p]	*1	120max	150max
	TEMPERATURE REGULATION[mV]	0 to +55℃	50max	150max
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		Fixed	
	OUTPUT VOLTAGE SETTING[%]		±5max (Rated input/output, Ta=25℃)	
	HOLD-UP TIME[ms]		10typ (ACIN 85V, Io=100%)	
PROTECTION CIRCUIT	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically	
ISOLATION	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 15mA, DC500V 50MΩmin (At Room Temperature)	
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)	
	OUTPUT-FG		AC500V 1minute, Cutoff current=100mA, DC500V 50MΩmin (At Room Temperature)	
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +70℃, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max	
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max	
	VIBRATION		10 - 55Hz, 98.0m/s² (10G), 3minutes period, 60minutes each along X, Y and Z axis	
	IMPACT		490.3m/s² (50G), 11ms, once each X, Y and Z axis	
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS		UL60950-1, EN60950-1, EN50178, CSA C22.2 No.60950-1 Complies with IEC60950-1	
	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, Additional capacitors required for meeting CISPR22-B, EN55022-B (External Fuse is required)	

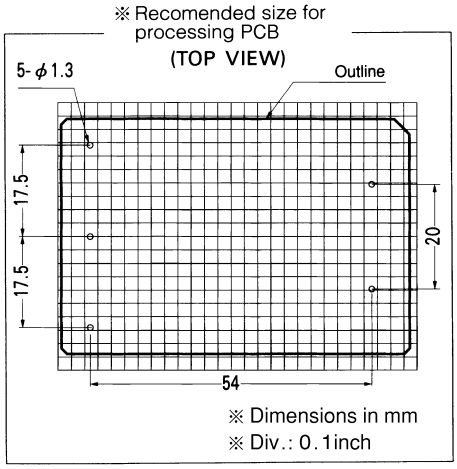
*1 Measured by 20MHz oscilloscope.
* Parallel operation with other model is not possible.

External view



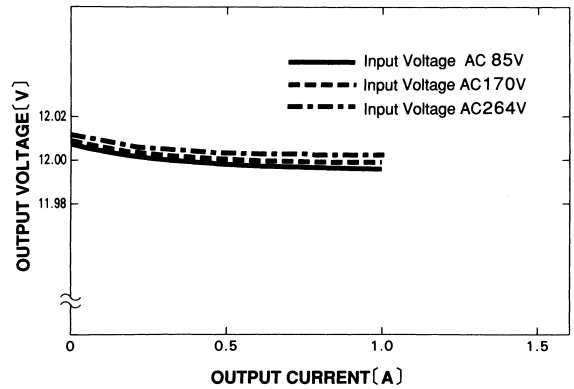


※ Weight: 100g or less
※ Tolerance: ±0.5
※ Case: PBT

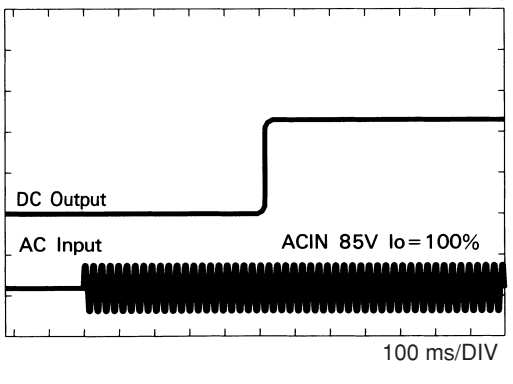


Performance data

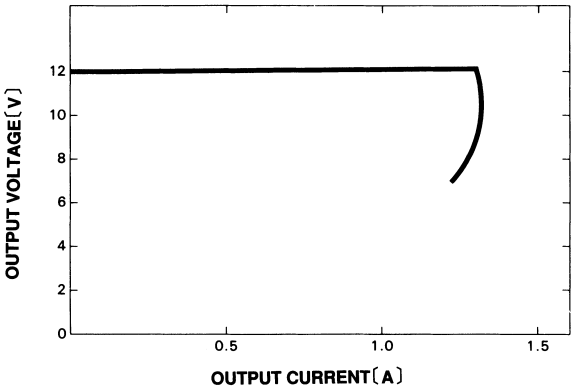
■STATIC CHARACTERISTICS (YAS1012)



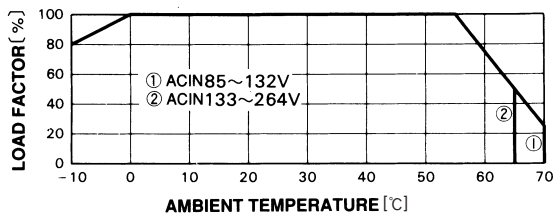
■RISE TIME (YAS1012)



■OVERCURRENT CHARACTERISTICS (YAS1012)



■DERATING CURVE



YA

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Cosel:

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