COSEL **On-board type**

YAW5

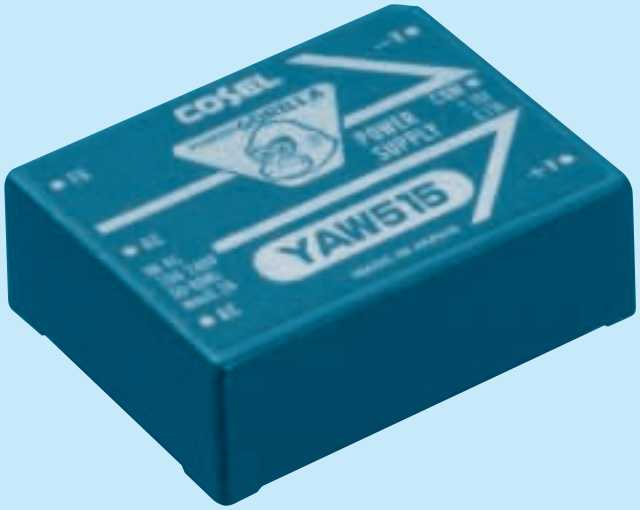
Ordering information

YA	W	5	12	E	
①	②	③	④	⑤	

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

(LVD)

RoHS



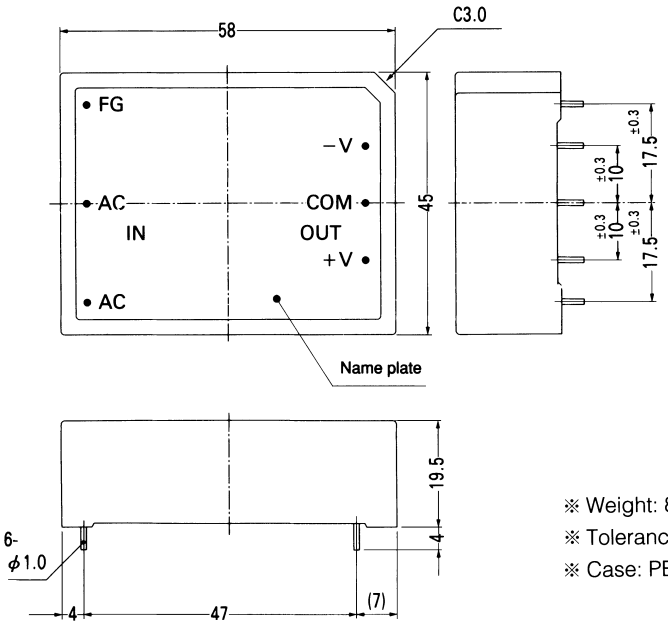
MODEL	YAW512	YAW515
MAX OUTPUT WATTAGE[W]	5.28	5.10
DC OUTPUT *1	±12V 0.22A or +24V 0.22A	±15V 0.17A or +30V 0.17A

SPECIFICATIONS

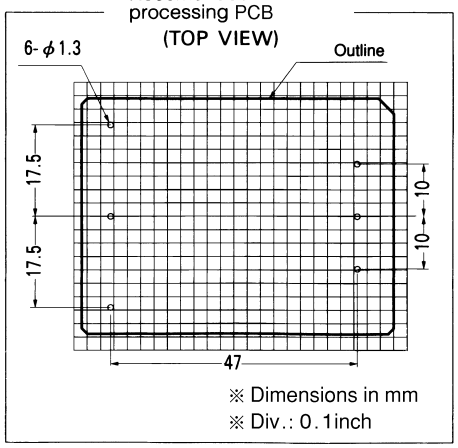
	MODEL		YAW512	YAW515
INPUT	VOLTAGE[V]		AC85 - 264 1φ or DC110 - 370	
	CURRENT[A]	ACIN 200V	0.07typ (Io=100%)	
	FREQUENCY[Hz]		47 - 440 or DC	
	EFFICIENCY[%]	ACIN 100V	67typ (Io=100%)	
	INRUSH CURRENT[A]	ACIN 100V	20typ (Io=100%)	
		ACIN 200V	40typ (Io=100%)	
OUTPUT	VOLTAGE[V]		±12 (+24)	±15 (+30)
	CURRENT[A]		0.22	0.17
	LINE REGULATION[mV]		60max	75max
	LOAD REGULATION[mV]		600max	750max
	RIPPLE[mVp-p] *2		120max	120max
	RIPPLE NOISE[mVp-p] *2		150max	150max
	TEMPERATURE REGULATION[mV]	0 to +55℃	150max	180max
	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 Output pins can be connected in series to make a 24V/30V output.
*2 Measured by 20MHz oscilloscope.
* The output specification is at ±12V and ±15V.
* Parallel operation with other model is not possible.

External view



※Recomended size for processing PCB
(TOP VIEW)

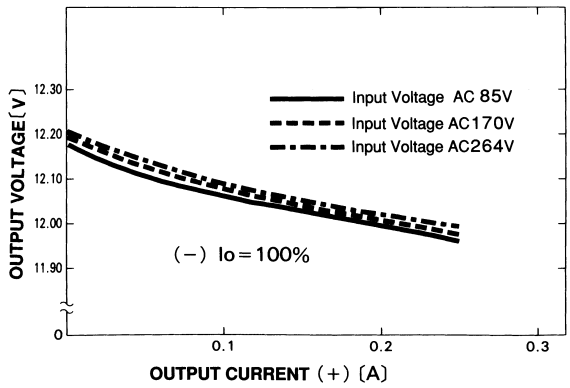


※ Dimensions in mm
※ Div.: 0.1inch

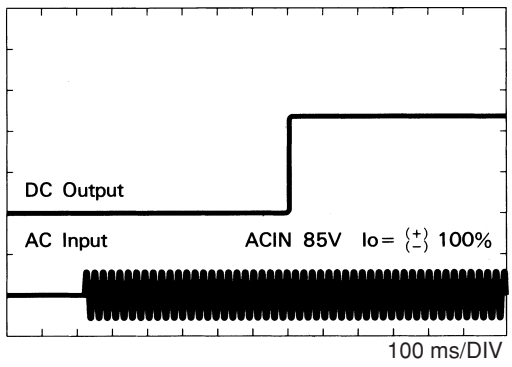
※ Weight: 85g or less
※ Tolerance: ±0.5
※ Case: PBT

Performance data

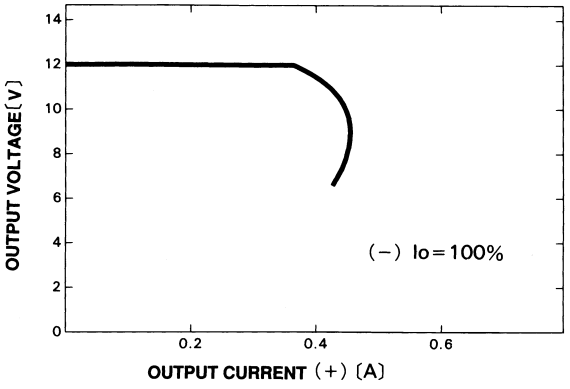
■STATIC CHARACTERISTICS (YAW512)



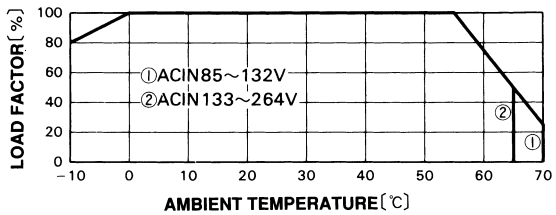
■RISE TIME (YAW512: +12V)



■OVERCURRENT CHARACTERISTICS (YAW512)



■DERATING CURVE



YA

COSEL On-board type

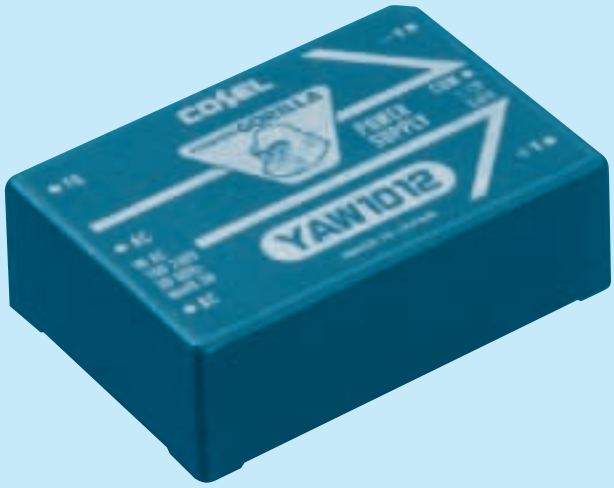
YAW10

Ordering information

YA	W	10	12	E	
①	②	③	④	⑤	

(LVD)

RoHS



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

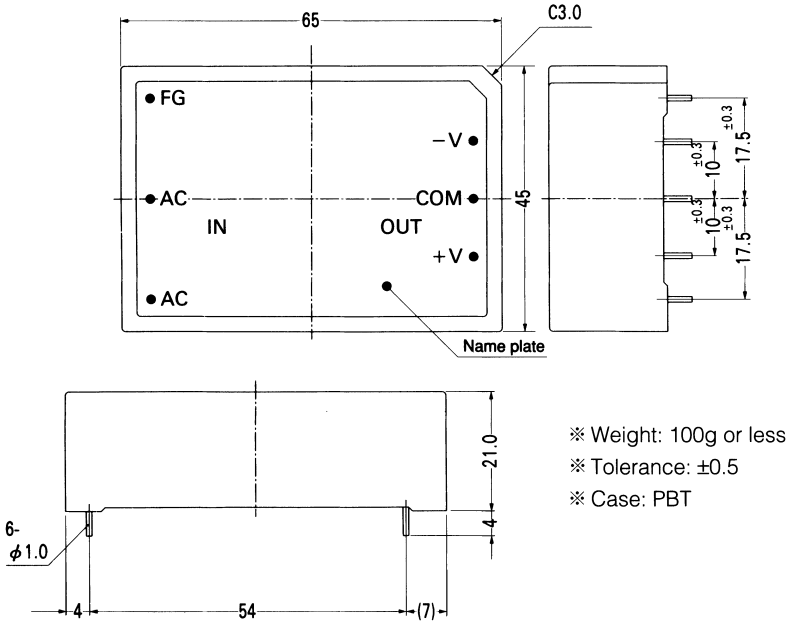
MODEL	YAW1012	YAW1015
MAX OUTPUT WATTAGE[W]	10.8	10.5
DC OUTPUT *1	±12V 0.45A or +24V 0.45A	±15V 0.35A or +30V 0.35A

SPECIFICATIONS

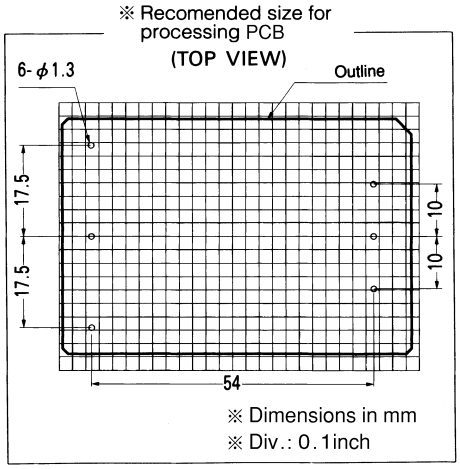
	MODEL		YAW1012	YAW1015
INPUT	VOLTAGE[V]		AC85 - 264 1φ or DC110 - 370	
	CURRENT[A]	ACIN 200V	0.14typ (Io=100%)	
	FREQUENCY[Hz]		47 - 440 or DC	
	EFFICIENCY[%]	ACIN 100V	72typ (Io=100%)	
	INRUSH CURRENT[A]	ACIN 100V	20typ (Io=100%)	
		ACIN 200V	40typ (Io=100%)	
OUTPUT	VOLTAGE[V]		±12 (+24)	±15 (+30)
	CURRENT[A]		0.45	0.35
	LINE REGULATION[mV]		60max	75max
	LOAD REGULATION[mV]		600max	750max
	RIPPLE[mVp-p] *2		120max	120max
	RIPPLE NOISE[mVp-p] *2		150max	150max
	TEMPERATURE REGULATION[mV]	0 to +55℃	150max	180max
	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 Output pins can be connected in series to make a 24V/30V output.
*2 Measured by 20MHz oscilloscope.
* The output specification is at ±12V and ±15V.
* Parallel operation with other model is not possible.

External view

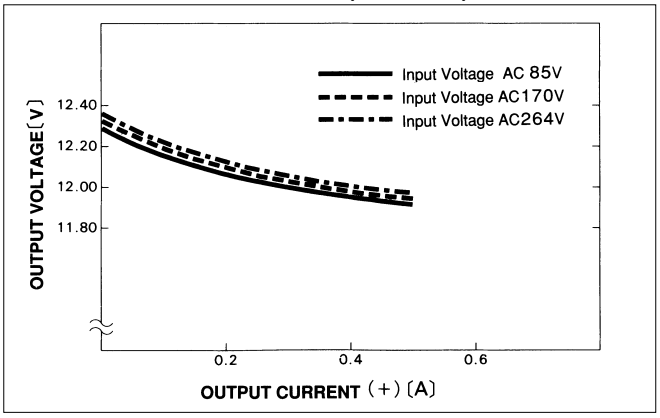


※ Weight: 100g or less
※ Tolerance: ±0.5
※ Case: PBT

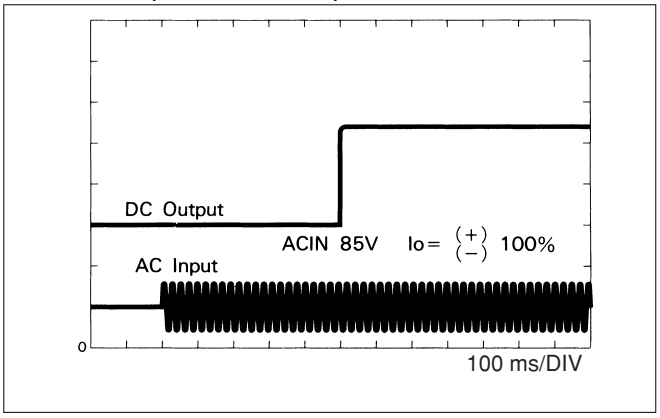


Performance data

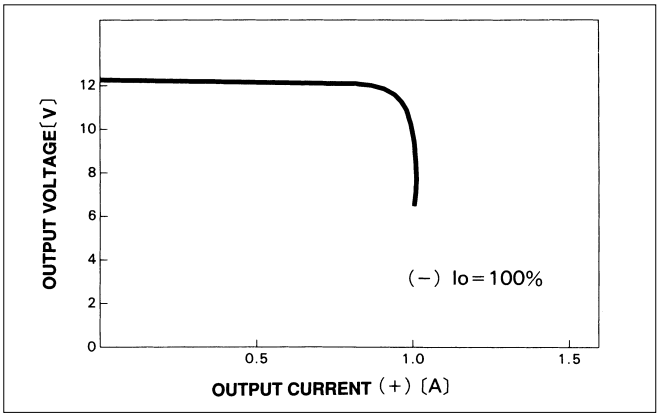
■STATIC CHARACTERISTICS (YAW1012)



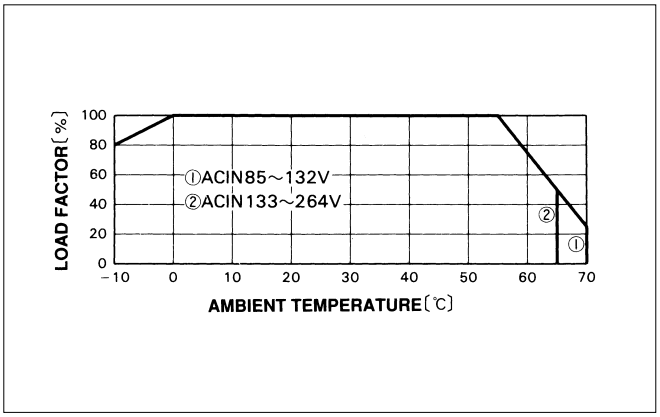
■RISE TIME (YAW1012: +12V)



■OVERCURRENT CHARACTERISTICS (YAW1012)



■DERATING CURRENT



YA