COSEL AC-DC Power Supplies PCB Mount type

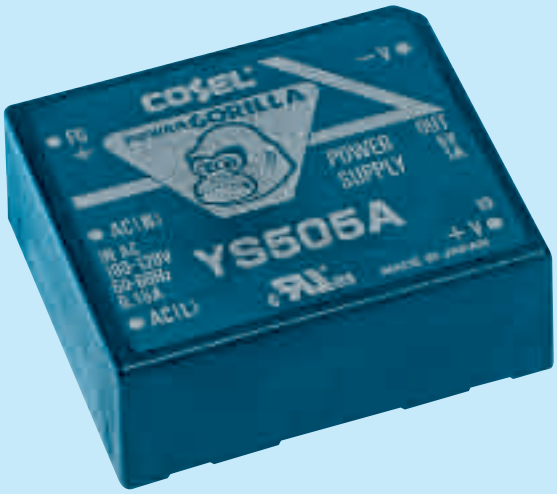
YS5

Ordering information

Y	S	5	05A		
①	②	③	④		

①Series name
②Single output
③Output wattage
④Output voltage

RoHS



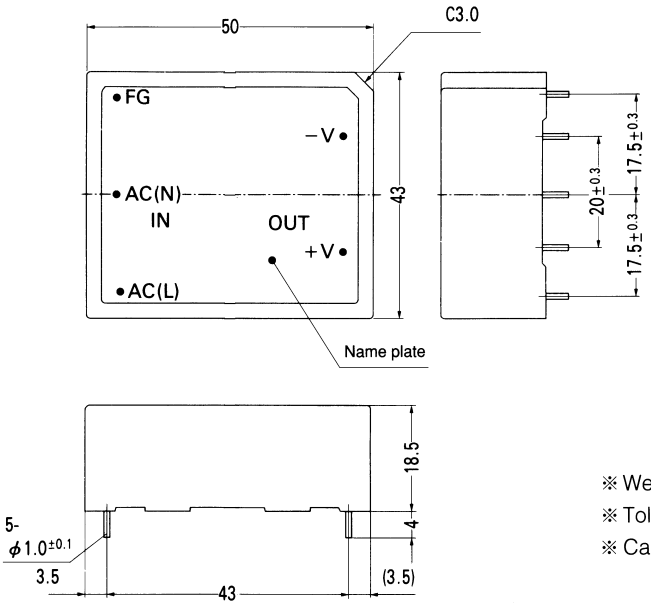
MODEL	YS505A	YS512A
MAX OUTPUT WATTAGE[W]	5.0	5.4
DC OUTPUT	5V 1.0A	12V 0.45A

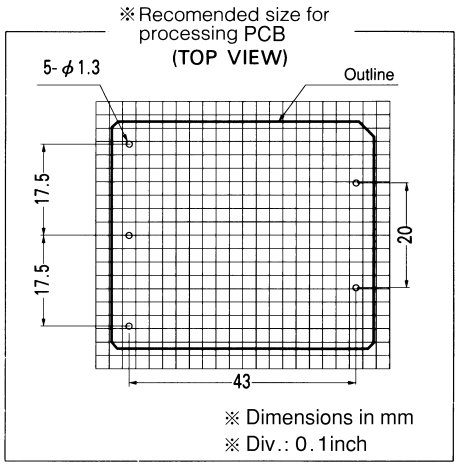
SPECIFICATIONS

	MODEL		YS505A	YS512A
INPUT	VOLTAGE[V]		AC85 - 132 1φ or DC110 - 170	
	CURRENT[A]	ACIN 100V	0.15typ (Io=100%)	
	FREQUENCY[Hz]		47 - 440 or DC	
	EFFICIENCY[%]	ACIN 100V	68typ (Io=100%)	70typ (Io=100%)
	INRUSH CURRENT[A]	ACIN 100V	15typ (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
	START-UP TIME[ms]		200max (ACIN 85V, Io=100%)	
	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-FG, OUTPUT		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, 30minutes 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, C-UL	
	CONDUCTED NOISE		Complies with FCC-B	

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

External view

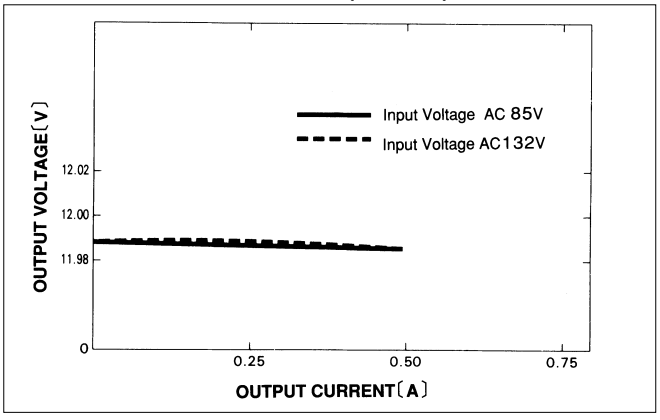




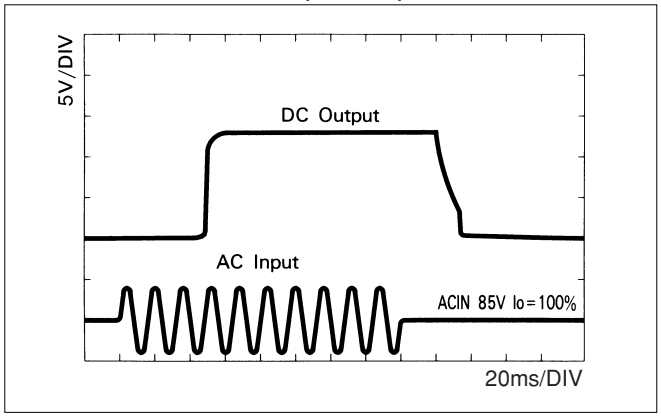
※ Weight: 65g or less
※ Tolerance: ±0.5
※ Case: PBT

Performance data

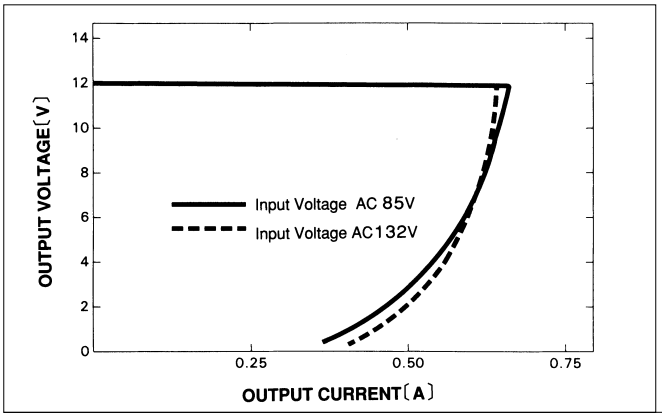
■STATIC CHARACTERISTICS (YS512A)



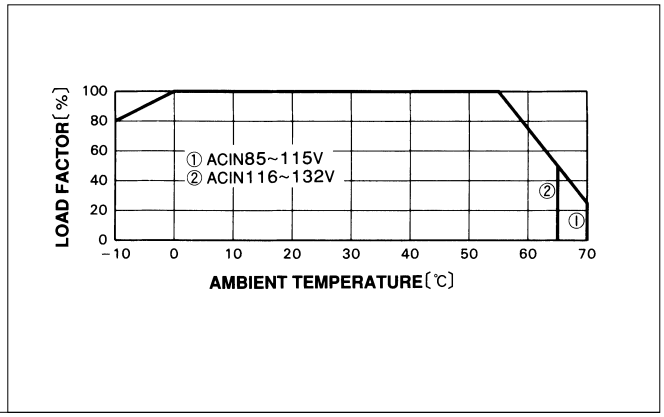
■RISE TIME & FALL TIME (YS512A)



■OVERCURRENT CHARACTERISTICS (YS512A)



■DERATING CURVE



COSEL AC-DC Power Supplies PCB Mount type

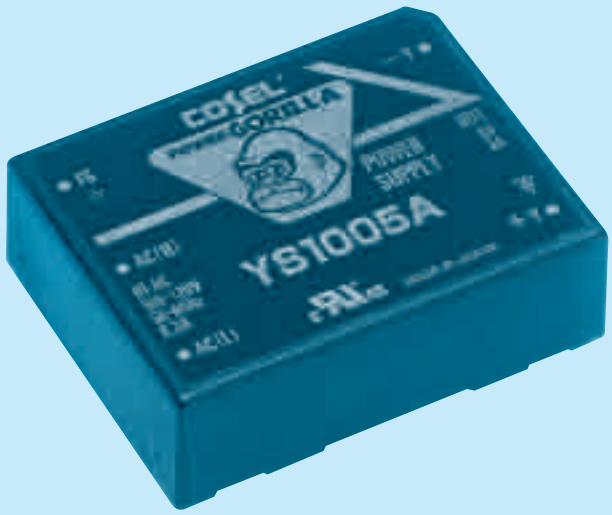
YS10

Ordering information

Y	S	10	05A		
①	②	③	④		

①Series name
②Single output
③Output wattage
④Output voltage

RoHS



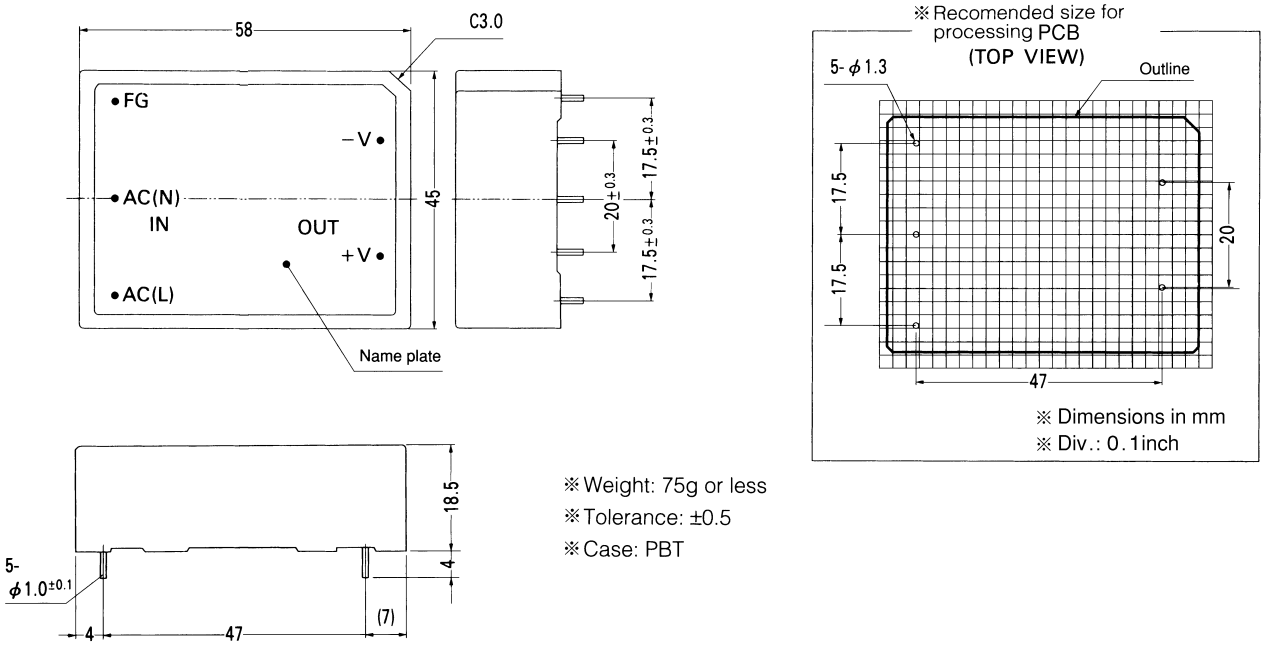
MODEL	YS1005A	YS1012A
MAX OUTPUT WATTAGE[W]	10.0	10.8
DC OUTPUT	5V 2.0A	12V 0.9A

SPECIFICATIONS

	MODEL		YS1005A	YS1012A
INPUT	VOLTAGE[V]		AC85 - 132 1φ or DC110 - 170	
	CURRENT[A]	ACIN 100V	0.3typ (Io=100%)	
	FREQUENCY[Hz]		47 - 440 or DC	
	EFFICIENCY[%]	ACIN 100V	73typ (Io=100%)	75typ (Io=100%)
	INRUSH CURRENT[A]	ACIN 100V	15typ (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
	START-UP TIME[ms]		200max (ACIN 85V, Io=100%)	
	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-FG, OUTPUT		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, 30minutes 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, C-UL	
	CONDUCTED NOISE		Complies with FCC-B	

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

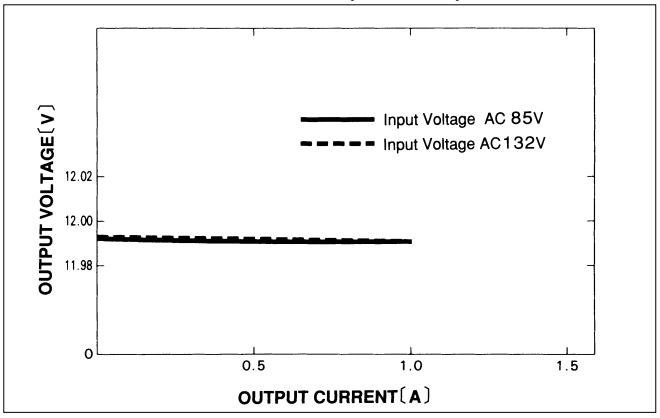
External view



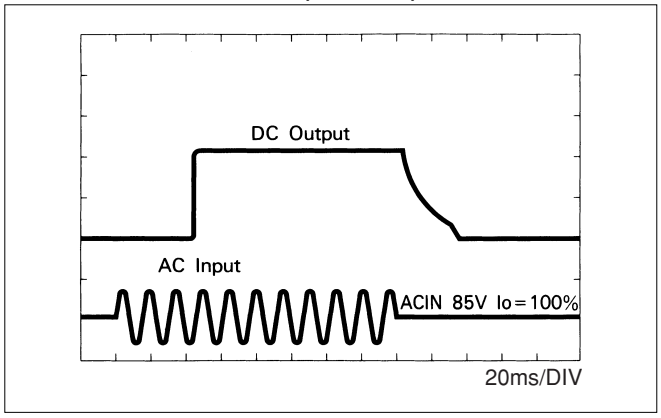
※Weight: 75g or less
※Tolerance: ±0.5
※Case: PBT

Performance data

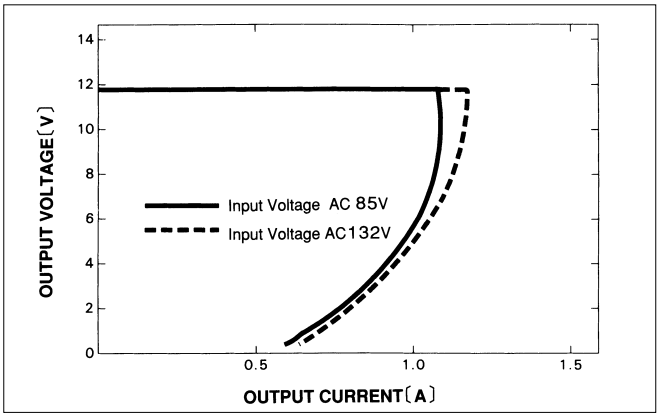
■STATIC CHARACTERISTICS (YS1012A)



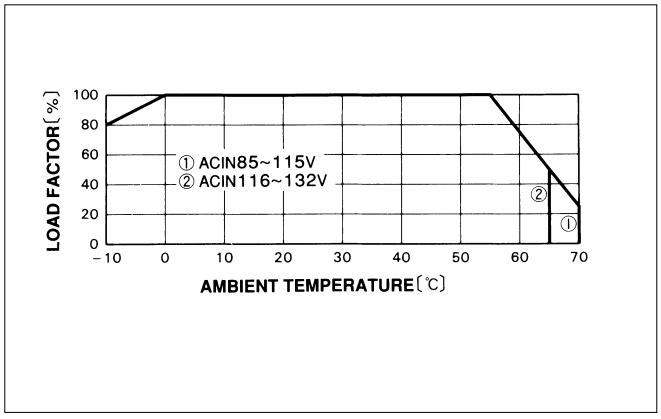
■RISE TIME & FALL TIME (YS1012A)



■OVERCURRENT CHARACTERISTICS (YS1012A)



■DERATING CURVE



COSEL AC-DC Power Supplies PCB Mount type

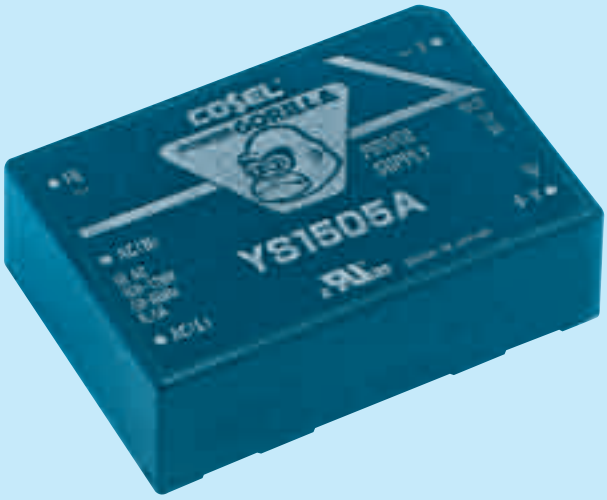
YS15

Ordering information

Y	S	15	05A		
①	②	③	④		

①Series name
②Single output
③Output wattage
④Output voltage

RoHS



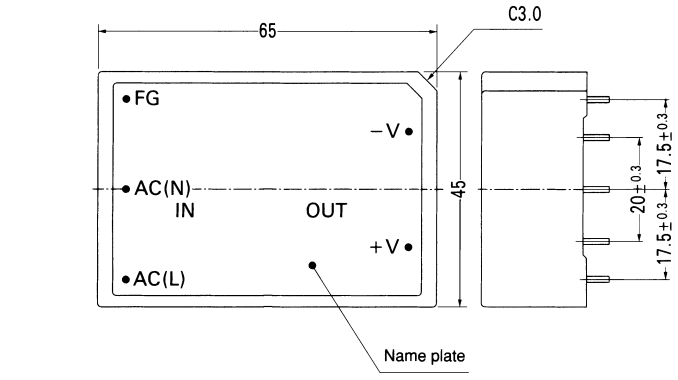
MODEL	YS1505A	YS1512A
MAX OUTPUT WATTAGE[W]	15.0	15.6
DC OUTPUT	5V 3.0A	12V 1.3A

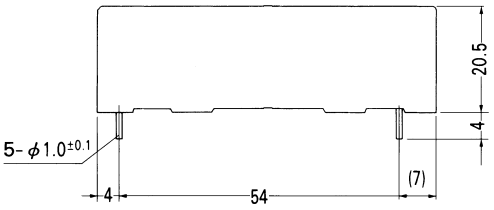
SPECIFICATIONS

	MODEL		YS1505A	YS1512A
INPUT	VOLTAGE[V]		AC85 - 132 1φ or DC110 - 170	
	CURRENT[A]	ACIN 100V	0.4typ (Io=100%)	
	FREQUENCY[Hz]		47 - 440 or DC	
	EFFICIENCY[%]	ACIN 100V	75typ (Io=100%)	78typ (Io=100%)
	INRUSH CURRENT[A]	ACIN 100V	25typ (Io=100%)	
OUTPUT	VOLTAGE[V]		5	12
	CURRENT[A]		3	1.3
	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
	START-UP TIME[ms]		200max (ACIN 85V, Io=100%)	
	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-FG, OUTPUT		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, 30minutes 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, C-UL	
	CONDUCTED NOISE		Complies with FCC-B	

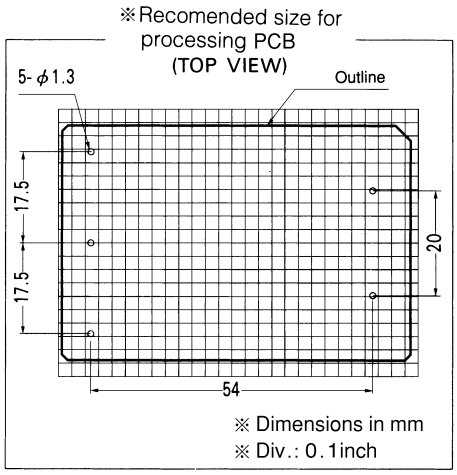
*1 Measured by 20MHz oscilloscope.
* Parallel operation with other model is not possible.

External view



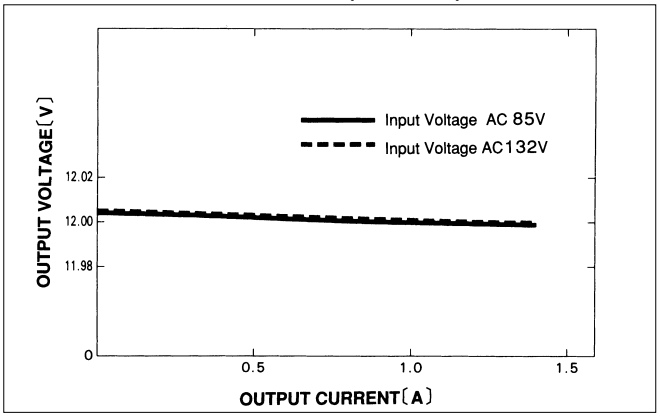


※Weight: 100g or less
※Tolerance: ±0.5
※Case: PBT

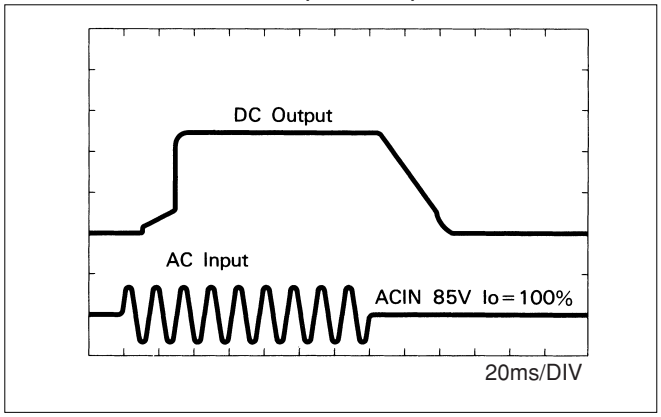


Performance data

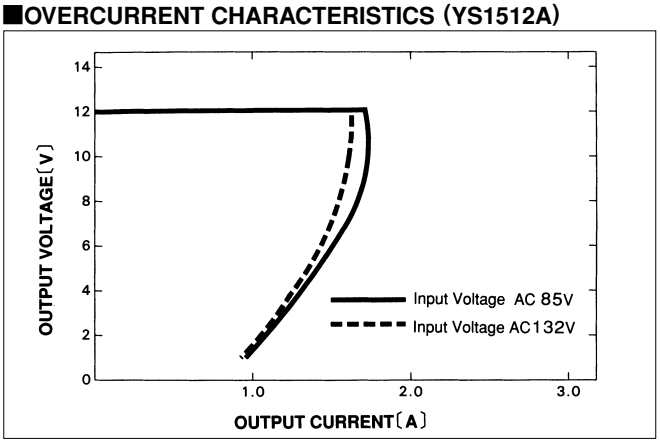
■STATIC CHARACTERISTICS (YS1512A)



■RISE TIME & FALL TIME (YS1512A)



■OVERCURRENT CHARACTERISTICS (YS1512A)



■DERATING CURVE

