

c **AL** [®] **us**
RoHS



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

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

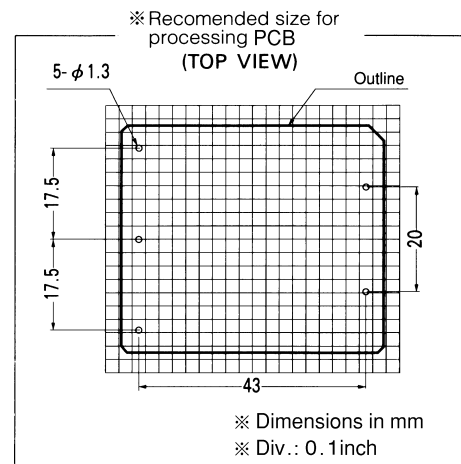
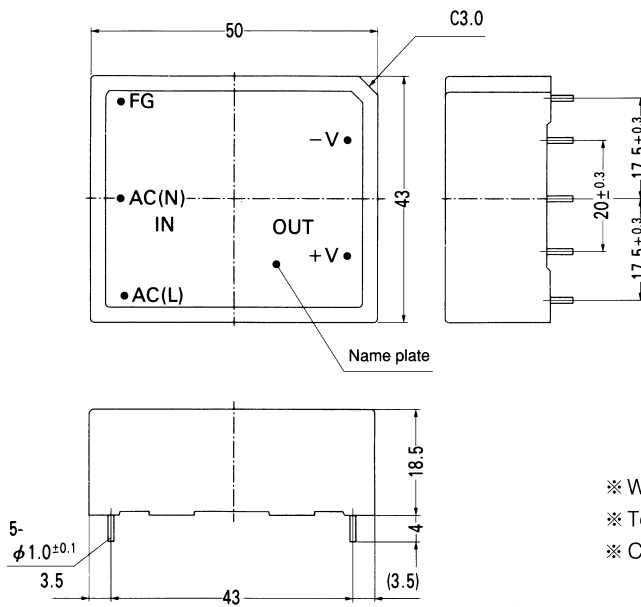
SPECIFICATIONS

	MODEL	YS505A	YS512A
INPUT	VOLTAGE[V]	AC85 - 132 1 ϕ 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°C 50max	150max
	START-UP TIME[ms]	200max (ACIN 85V, Io=100%)	
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed	
	OUTPUT VOLTAGE SETTING[%]	± 5 max (Rated input/output, Ta=25°C)	
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically	
	INPUT-FG, OUTPUT	AC2.000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)	
ISOLATION	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)	
	OPERATING TEMP., HUMID. AND ALTITUDE	-10 to +70°C, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max	
ENVIRONMENT	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max	
	VIBRATION	10 - 55Hz, 98.0m/s ² (10G), 3minutes period, 30minutes each along X, Y and Z axis	
	IMPACT	490.3m/s ² (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.

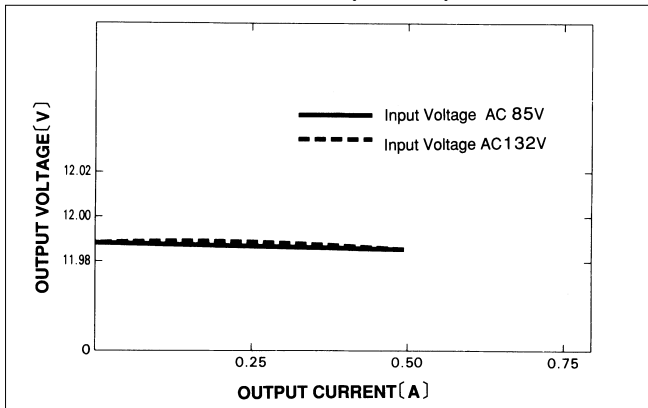
External view



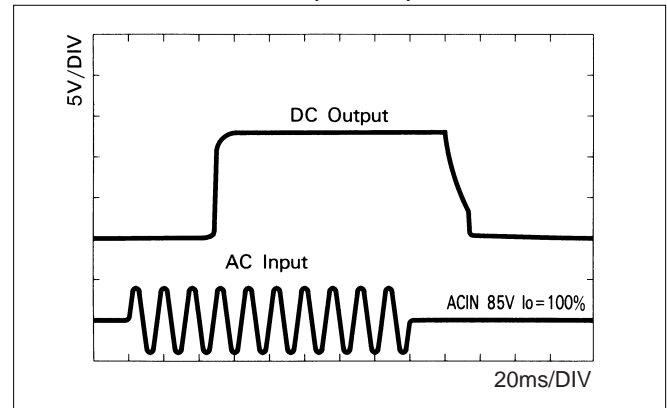
※ Weight: 65g or less
※ Tolerance: ±0.5
※ Case: PBT

Performance data

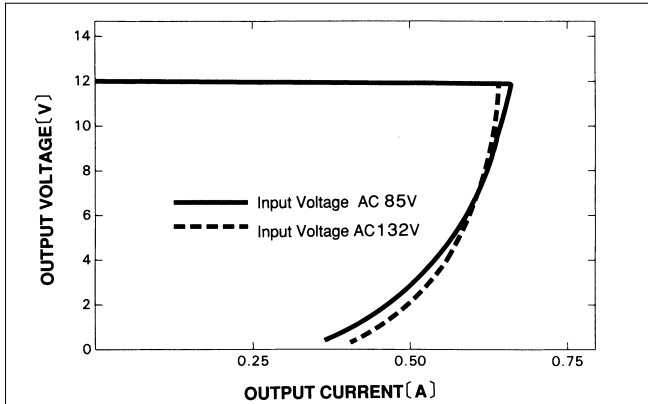
STATIC CHARACTERISTICS (YS512A)



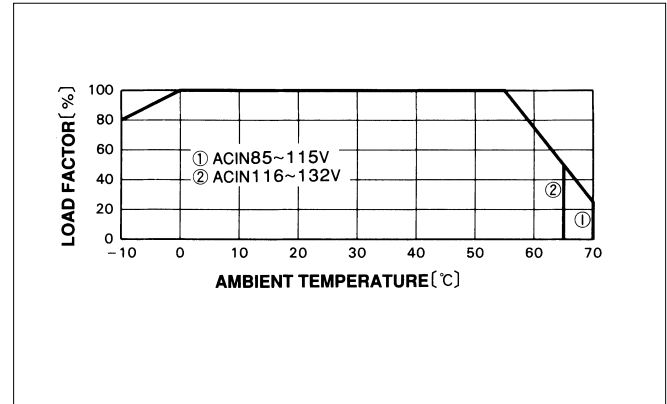
RISE TIME & FALL TIME (YS512A)



OVERCURRENT CHARACTERISTICS (YS512A)



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

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

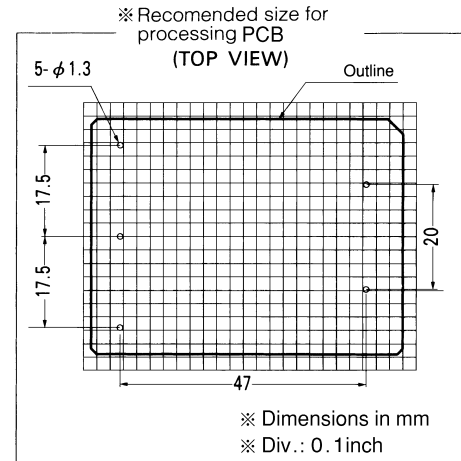
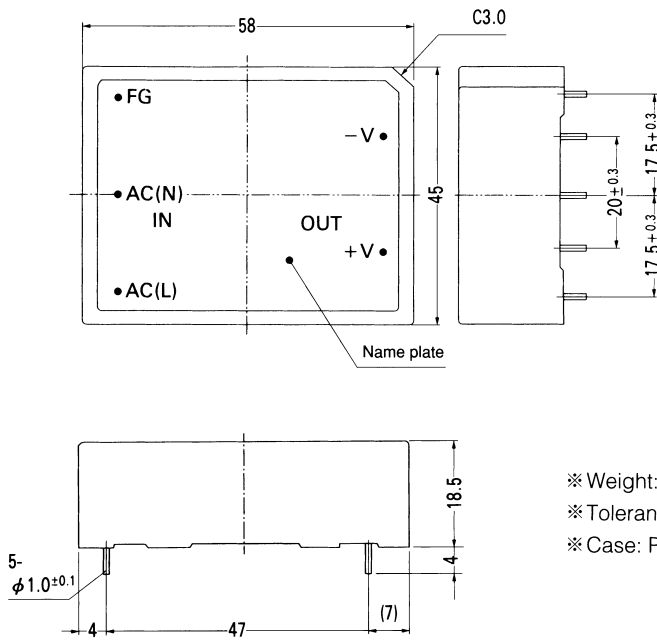
SPECIFICATIONS

	MODEL	YS1005A	YS1012A
INPUT	VOLTAGE[V]	AC85 - 132 1 ϕ or DC110 - 170	
	CURRENT[A]	ACIN 100V	0.3typ (Io=100%)
	FREQUENCY[Hz]	47 - 440 or DC	
	EFFICIENCY[%]	ACIN 100V	73typ (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°C	50max
	START-UP TIME[ms]	200max (ACIN 85V, Io=100%)	
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed	
	OUTPUT VOLTAGE SETTING[%]	± 5 max (Rated input/output, Ta=25°C)	
PROTECTION CIRCUIT	HOLD-UP TIME[ms]	10typ (ACIN 85V, Io=100%)	
	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically	
	ISOLATION		
ISOLATION	INPUT-FG, OUTPUT	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 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max	
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max	
	VIBRATION	10 - 55Hz, 98.0m/s ² (10G), 3minutes period, 30minutes each along X, Y and Z axis	
	IMPACT	490.3m/s ² (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.

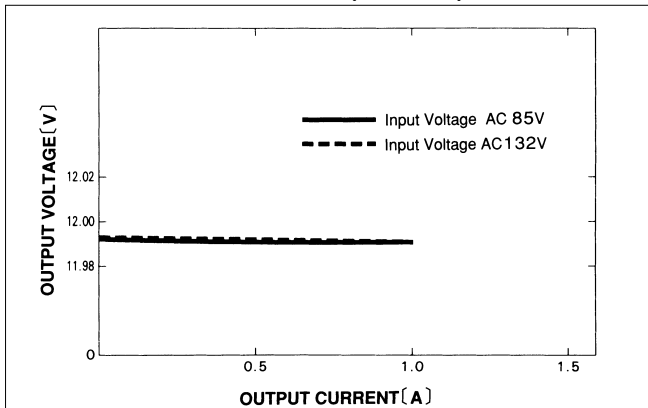
External view



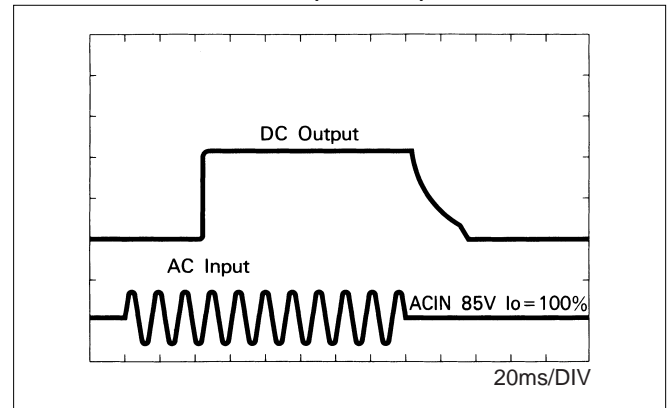
※ Weight: 75g or less
 ※ Tolerance: ± 0.5
 ※ Case: PBT

Performance data

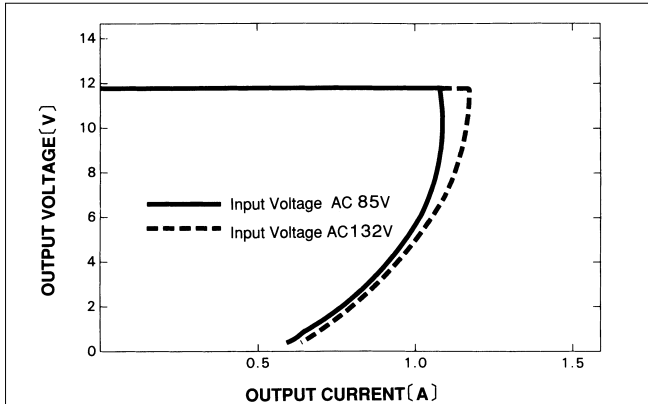
STATIC CHARACTERISTICS (YS1012A)



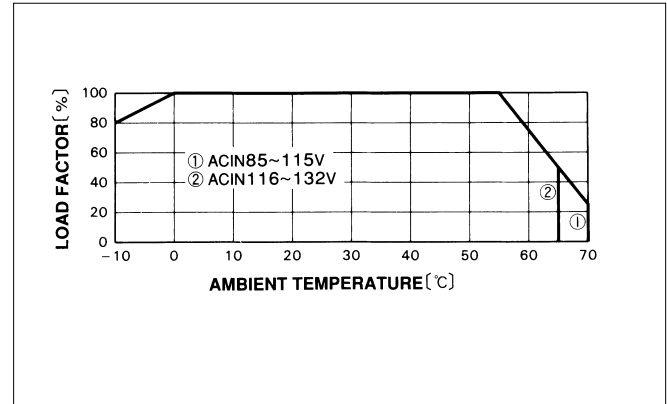
RISE TIME & FALL TIME (YS1012A)



OVERCURRENT CHARACTERISTICS (YS1012A)



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

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

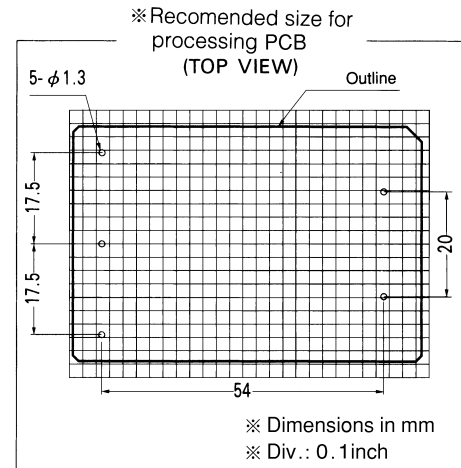
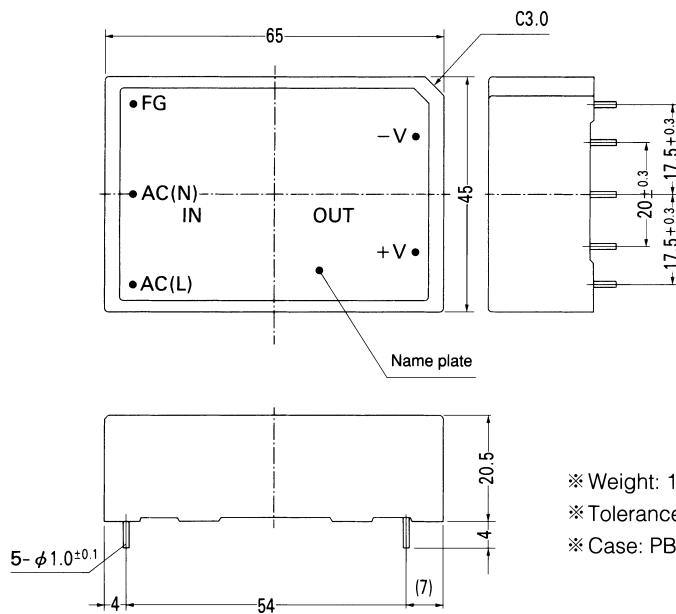
SPECIFICATIONS

	MODEL	YS1505A	YS1512A
INPUT	VOLTAGE[V]	AC85 - 132 1 ϕ or DC110 - 170	
	CURRENT[A]	ACIN 100V	0.4typ (Io=100%)
	FREQUENCY[Hz]	47 - 440 or DC	
	EFFICIENCY[%]	ACIN 100V	75typ (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°C	50max
	START-UP TIME[ms]	200max (ACIN 85V, Io=100%)	
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed	
	OUTPUT VOLTAGE SETTING[%]	± 5 max (Rated input/output, Ta=25°C)	
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically	
	INPUT-FG, OUTPUT	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 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max	
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max	
	VIBRATION	10 - 55Hz, 98.0m/s ² (10G), 3minutes period, 30minutes each along X, Y and Z axis	
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SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, C-UL	
	CONDUCTED NOISE	Complies with FCC-B	

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* Parallel operation with other model is not possible.

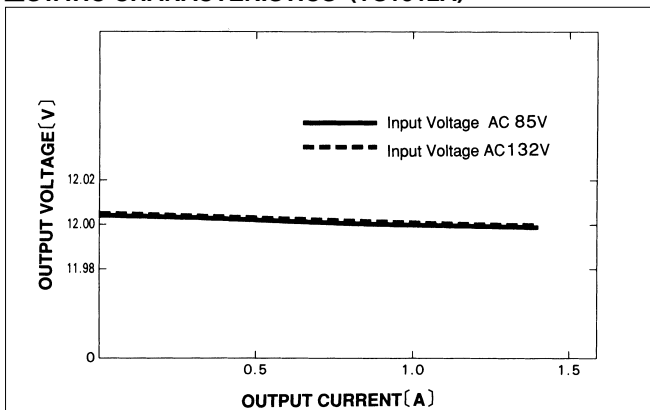
External view



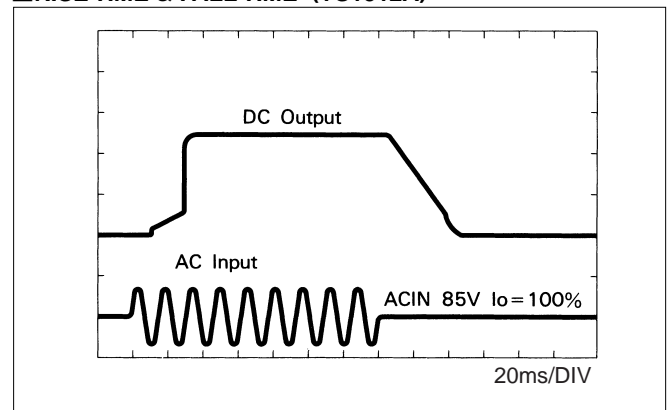
- ※ Weight: 100g or less
- ※ Tolerance: ± 0.5
- ※ Case: PBT

Performance data

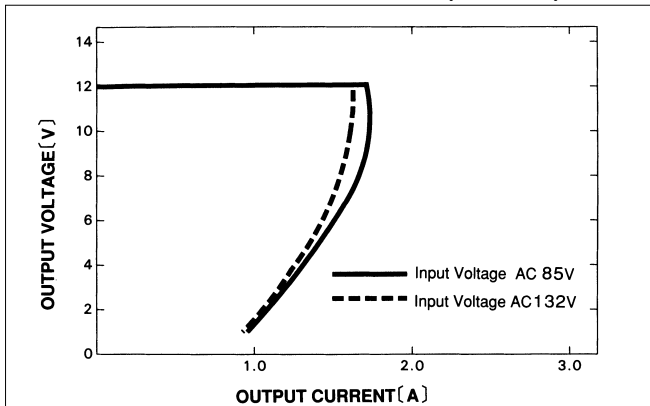
■ STATIC CHARACTERISTICS (YS1512A)



■ RISE TIME & FALL TIME (YS1512A)



■ OVERCURRENT CHARACTERISTICS (YS1512A)



■ DERATING CURVE

