

RoHS



High voltage pulse noise type : NAP series Low leakage current type : NAM series *The EMI/EMC Filter is recommended to connect with several devices.

 Series name
 100/120V input
 Output wattage
 Single output 5 Output voltage Optional *3
 C :with Coating
 G :Low leakage current Y :with Potentiometer

MODEL	LCA10S-5	LCA10S-5-H	LCA10S-12	LCA10S-15	LCA10S-24
MAX OUTPUT WATTAGE[W]	10	10	10.8	10.5	12
DC OUTPUT	5V 2A	5V 2A	12V 0.9A	15V 0.7A	24V 0.5A

SPECIFICATIONS

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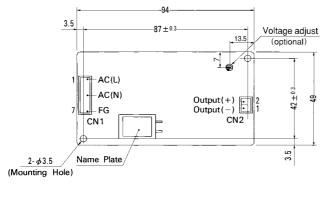
	MODEL		LCA10S-5	LCA10S-5-H	LCA10S-12	LCA10S-15	LCA10S-24			
	VOLTAGE[V]		AC85 - 132 1 φ or	DC110 - 170	·		·			
	CURRENT[A]	ACIN 100V	0.3typ (lo=100%)							
	FREQUENCY[Hz]		47 - 440 or DC							
INPUT	EFFICIENCY[%]		71typ	71typ	75typ	75typ	78typ			
	INRUSH CURRENT[A]	ACIN 100V								
	LEAKAGE CURREN	NT[mA]	0.5max (60Hz, According to UL, CSA and DEN-AN)							
	VOLTAGE[V]		5	5	12	15	24			
	CURRENT[A]		2	2 (Peak 3)	0.9	0.7	0.5			
	LINE REGULATION[mV]		20max	20max	48max	60max	96max			
	LOAD REGULATIO	N[mV]	40max	40max	100max	120max	150max			
	RIPPLE[mVp-p]	0 to +50℃ *1	80max	80max	120max	120max	120max			
		-10 - 0°C *1	140max	140max	160max	160max	160max			
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	120max	120max	150max	150max	150max			
JUIPUI		-10 - 0℃ *1	160max	160max	180max	180max	180max			
	TEMPERATURE REGULAT	TION[mV]	50max	50max	120max	150max	240max			
	DRIFT[mV]	*2	20max	20max	48max	60max	96max			
н	START-UP TIME[m	s]	100max (ACIN 85)	/, lo=100%)						
	HOLD-UP TIME[ms	s]	10typ (ACIN 85V,	lo=100%) 20typ (AC	IN 100V, lo=100%)					
	OUTPUT VOLTAGE ADJUSTMENT	T RANGE[V]	Fixed ("Y"which ca	n be adjusted the o	utput is available as o	optional:5V -5 to +10°	% : 12, 15, 24V ±109			
	OUTPUT VOLTAGE SETTING[V]		4.9 - 5.3	4.9 - 5.3	11.5 - 12.5	14.4 - 15.6	23.0 - 25.0			
	OVERCURRENT PROT	ECTION								
ROTECTION	OVERVOLTAGE PROTE	ECTION	Works over 115% of rating, by zener diode clamping							
CIRCUIT AND	OPERATING INDIC	ATION	Not provided							
OTHERS	REMOTE SENSING	G	Not provided							
	REMOTE ON/OFF		Not provided							
	INPUT-OUTPUT		AC2,000V 1minute	-, Cutoff current = 10	$mA_{\rm p}$ DC500V 50M Ω	min (At Room Temp	erature)			
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)							
	OUTPUT-FG					min (At Room Tempe	,			
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +60°C, 20 -	90%RH (Non conde	nsing) (Refer to DEF	ATING CURVE), 3,0	00m (10,000feet) max			
	STORAGE TEMP.,HUMID.AND	ALTITUDE	-		nsing), 9,000m (30,0					
	VIBRATION		10 - 55Hz, 19.6m/s	s ² (2G), 3minutes pe	riod, 60minutes each	n along X, Y and Z av	kis			
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis							
NOISE I	AGENCY APPROV		UL60950-1, CSA (C22.2 No.60950-1 C	omplies with DEN-AN	1				
REGULATIONS	CONDUCTED NOIS	SE	Complies with FCC	C-B, VCCI-B						
OTHERS	CASE SIZE/WEIGH	IT	49×17×94mm (V	/×H×D) / 65g max						
	COOLING METHO	D	Convection							

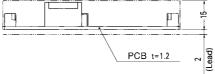
*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN : RM101).
 *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C with the input voltage held constant at the rated input/output.

*3 Please contact us about safety approvals for the model with option.

* Avoid prolonged use under over-load.







I/C	Connector	Mating Connector.	Terminal
CN1	B3(7.5)B-XH-A	XHP-7	Chain: SXH-001T-P0.6
CINT	B3(7.0)D-A11-A	AHF-7	Loose: BXH-001T-P0.6
CN12	B2B-XH-A	XHP-2	Chain: SXH-001T-P0.6
	UZD-AII-A	XIII -2	Loose: BXH-001T-P0.6
			(Mfr : J.S.T

<PIN CONNECTION> Pin No.

3

Δ

5 6

CN1

]		Pin No.	Output
	CN2	1	-V
		2	+V
]			

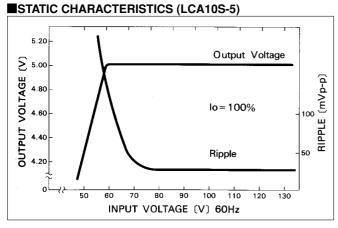
FG Weight: 65g or less
Tolerance: ±1
Dimensions in mm.
PCB Material: Glass composite (CEM 3)

Input

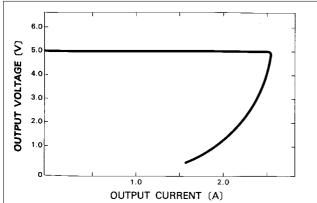
AC(L)

AC(N)

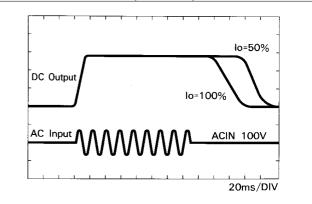
Performance data

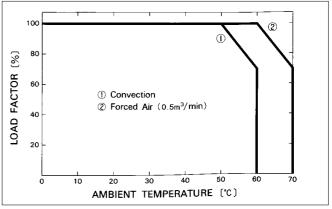


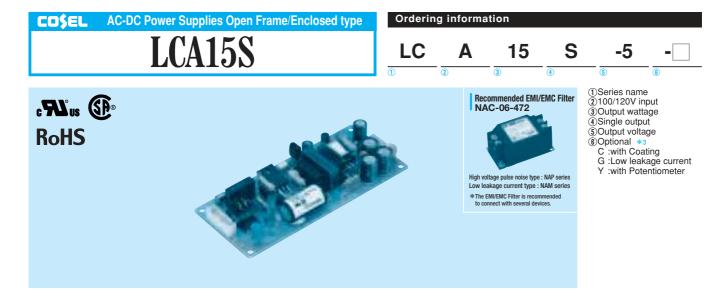
OVERCURRENT CHARACTERISTICS (LCA10S-5)



RISE TIME & FALL TIME (LCA10S-5)







MODEL	LCA15S-5	LCA15S-12	LCA15S-15	LCA15S-24
MAX OUTPUT WATTAGE[W]	15	15.6	15	16.8
DC OUTPUT	5V 3A	12V 1.3A	15V 1A	24V 0.7A

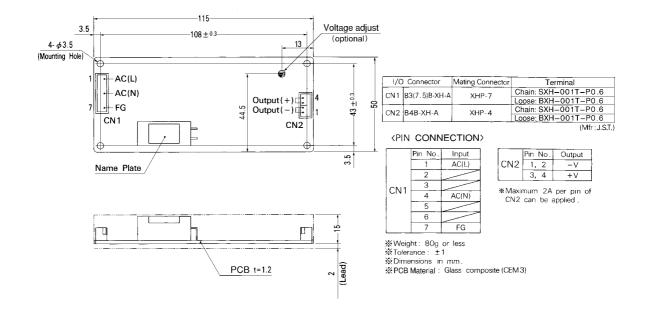
	MODEL		LCA15S-5	LCA15S-12	LCA15S-15	LCA15S-24				
	VOLTAGE[V]		AC85 - 132 1 φ or DC11	0 - 170						
	CURRENT[A]	ACIN 100V	0.4typ (lo=100%)							
	FREQUENCY[Hz]		47 - 440 or DC							
INPUT	EFFICIENCY[%]		72typ	75typ	75typ	78typ				
	INRUSH CURRENT[A]	ACIN 100V	20typ (lo=100%) (At cold start)							
	LEAKAGE CURREN	T[mA]	0.5max (60Hz, According to UL, CSA and DEN-AN)							
	VOLTAGE[V]		5	12	15	24				
	CURRENT[A]		3	1.3	1	0.7				
	LINE REGULATION	l[mV]	20max	48max	60max	96max				
	LOAD REGULATIO	N[mV]	40max	100max	120max	150max				
	0 to +50℃ * 1		80max	120max	120max	120max				
	RIPPLE[mVp-p]	-10 - 0°C *1	140max	160max	160max	160max				
		0 to +50℃ *1	120max	150max	150max	150max				
OUTPUT	RIPPLE NOISE[mVp-p]	-10 - 0°C *1	160max	180max	180max	180max				
	TEMPERATURE REGULAT	[ION[mV]	50max	120max	150max	240max				
	DRIFT[mV]	*2	20max	48max	60max	96max				
	START-UP TIME[m	s]	100max (ACIN 85V, lo=1	00%)						
	HOLD-UP TIME[ms	- s]	10typ (ACIN 85V, Io=100)%) 20typ (ACIN 100V, I	o=100%)					
	OUTPUT VOLTAGE ADJUSTMENT	•				to +10% : 12, 15, 24V ±10				
	OUTPUT VOLTAGE SETTING[V]		4.9 - 5.3	11.5 - 12.5	14.4 - 15.6	23.0 - 25.0				
	OVERCURRENT PROT	ECTION	Works over 105% of rating and recovers automatically							
PROTECTION	OVERVOLTAGE PROTE	ECTION	Works over 115% of rating, by zener diode clamping							
	OPERATING INDIC	ATION	Not provided							
OTHERS	REMOTE SENSING	à	Not provided							
	REMOTE ON/OFF		Not provided							
	INPUT-OUTPUT		AC2.000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)							
ISOLATION	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)							
	OPERATING TEMP., HUMID.AND	ALTITUDE	-10 to +60℃, 20 - 90%R	H (Non condensing) (Re	fer to DERATING CURV	/E), 3,000m (10,000feet) ma				
	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75℃, 20 - 90%R	H (Non condensing), 9,0	00m (30,000feet) max					
ENVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis							
	IMPACT		196.1m/s ² (20G), 11ms,	once each X, Y and Z ax	xis					
SAFETY AND	AGENCY APPROV	ALS	UL60950-1, CSA C22.2							
NOISE REGULATIONS	CONDUCTED NOIS	SE	Complies with FCC-B, V	CCI-B						
	CASE SIZE/WEIGH		50×17×115mm (W×H							
OTHERS	COOLING METHO		Convection							

*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN : RM101).
 *2 Drift is the change 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.

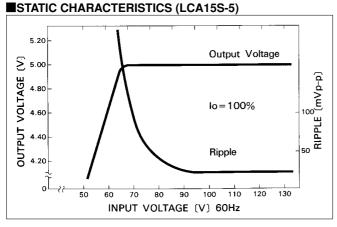
*3 Please contact us about safety approvals for the model with option.

* Avoid prolonged use under over-load.

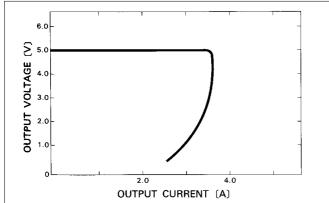




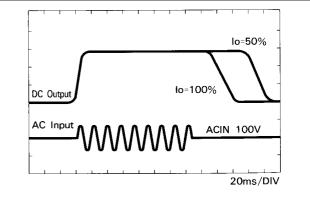
Performance data



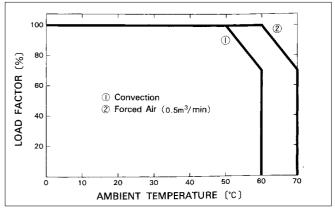
OVERCURRENT CHARACTERISTICS (LCA15S-5)



RISE TIME & FALL TIME (LCA15S-5)



DERATING CURVE



LCA

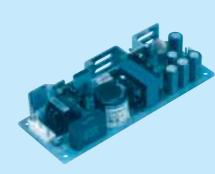


LCA30S

Ordering information



RoHS



Recommended EMI/EMC Filter NAC-06-472

High voltage pulse noise type : NAP series Low leakage current type : NAM series *The EMI/EMC Filter is recommended to connect with several devices.

 Series name
 100/120V input
 Output wattage
 Single output 5 Output voltage Optional *3
 C :with Coating
 G :Low leakage current Y :with Potentiometer

MODEL	LCA30S-3	LCA30S-5	LCA30S-12	LCA30S-15	LCA30S-24	LCA30S-36	LCA30S-48
MAX OUTPUT WATTAGE[W]	18	30	30	30	31.2	32.4	33.6
DC OUTPUT	3V 6A	5V 6A	12V 2.5A	15V 2A	24V 1.3A	36V 0.9A	48V 0.7A

SPECIFICATIONS

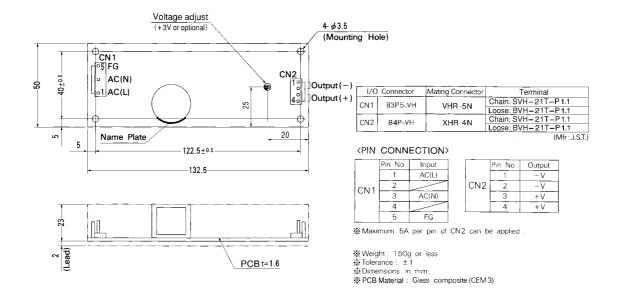
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	MODEL		LCA30S-3	LCA30S-5	LCA30S-12	LCA30S-15	LCA30S-24	LCA30S-36	LCA30S-48		
	VOLTAGE[V]			φ or DC110 -		LCA303-13	LUA303-24	LCA303-30	LCA303-40		
	CURRENT[A]	ACIN 100V	0.7typ (lo=100	F	170						
	FREQUENCY[Hz]	AOIN 1001	47 - 440 or D								
INPUT	EFFICIENCY[%]		69typ	75typ	80typ	81typ	82typ	80typ	80typ		
		ACIN 100V	25typ (lo=100%) (At cold start)								
	LEAKAGE CURREN		11			FN-AN)					
	VOLTAGE[V]		3	5	12	15	24	36	48		
			6	6	2.5	2	1.3	0.9	0.7		
	LINE REGULATION[mV]		20max	20max	48max	60max	96max	144max	192max		
	LOAD REGULATION[mV]		40max	40max	100max	120max	150max	240max	300max		
		0 to +50°C *1	80max	80max	120max	120max	120max	150max	150max		
	RIPPLE[mVp-p]	-10 - 0°C *1	140max	140max	160max	160max	160max	200max	200max		
0.UTD		0 to +50°C *1	120max	120max	150max	150max	150max	250max	350max		
OUTPUT	RIPPLE NOISE[mVp-p]	-10 - 0°C *1	160max	160max	180max	180max	180max	300max	400max		
	TEMPERATURE REGULATION[mV]		50max	50max	120max	150max	240max	360max	480max		
	DRIFT[mV]	*2	20max	20max	48max	60max	96max	144max	192max		
ŀ	START-UP TIME[m	s]	100max (ACII	85V, lo=100%	(6)	1					
	HOLD-UP TIME[ms	s]	10typ (ACIN 8	35V, lo=100%)	20typ (ACIN 10	0V, lo=100%)					
	OUTPUT VOLTAGE ADJUSTMEN	RANGE[V]	2.85 - 3.6	Fixed ("Y"which	can be adjusted the	output is available	as optional:5V -5	to +10% : 12, 15, 2	24, 36, 48V ±10		
	OUTPUT VOLTAGE SET	TING[V]		4.9 - 5.3	11.5 - 12.5	14.4 - 15.6	23.0 - 25.0	34.5 - 37.5	46.0 - 50.0		
	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically								
PROTECTION	OVERVOLTAGE PROTI	ECTION	4.00V min Works over 115% of rating, by zener diode clamping								
CIRCUIT AND	OPERATING INDIC	ATION	Not provided								
OTHERS	REMOTE SENSING	à	Not provided								
	REMOTE ON/OFF		Not provided								
	INPUT-OUTPUT		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)								
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)								
	OUTPUT-FG		AC500V 1min	ute, Cutoff curi	rent = 100mA, E	C500V 50MΩ	min (At Room	Temperature)			
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +60℃,	20 - 90%RH (i	Non condensing) (Refer to DEF	ATING CURVE	E), 3,000m (10,0	000feet) max		
	STORAGE TEMP.,HUMID.AND	ALTITUDE			Non condensing						
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis								
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis								
SAFETY AND	AGENCY APPROV	ALS	UL60950-1, C	SA C22.2 No.6	60950-1 Compli	es with DEN-AN	1				
REGULATIONS	CONDUCTED NOIS	SE		FCC-B, VCCI							
OTHERS	CASE SIZE/WEIGH	IT	50×25×132.	5mm (W×H×	D) / 150g max						
	COOLING METHO	D	Convection								

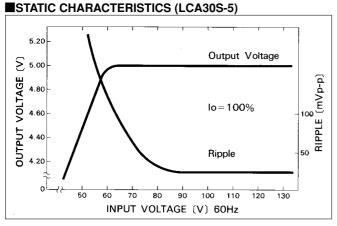
*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN : RM101).
 *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C with the input voltage held constant at the rated input/output.

*3 Please contact us about safety approvals for the model with option.

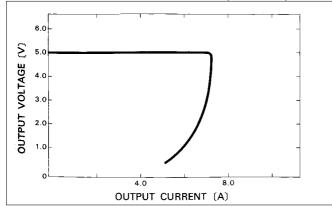
* Avoid prolonged use under over-load.



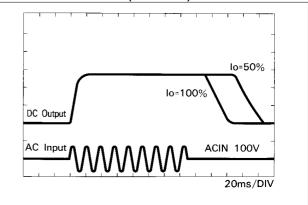
Performance data

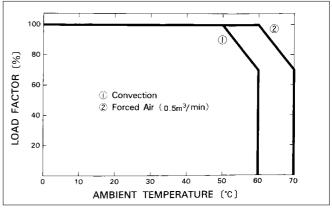






RISE TIME & FALL TIME (LCA30S-5)







MODEL	LCA50S-3	LCA50S-5	LCA50S-12	LCA50S-15	LCA50S-24	LCA50S-24-H	LCA50S-36	LCA50S-48
MAX OUTPUT WATTAGE[W]	30	50	51.6	52.5	60	60	61.2	62.4
DC OUTPUT	3V 10A	5V 10A	12V 4.3A	15V 3.5A	24V 2.5A	24V 2.5A	36V 1.7A	48V 1.3A

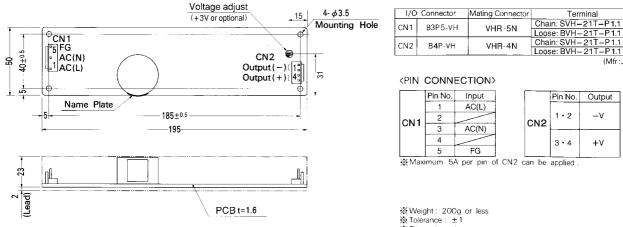
	MODEL		LCA50S-3	LCA50S-5	LCA50S-12	LCA50S-15	LCA50S-24	LCA50S-24-H	LCA50S-36	LCA50S-4	
	VOLTAGE[V]		AC85 - 132 1	ϕ or DC110 -	170						
	CURRENT[A]	ACIN 100V	1.3typ (lo=10	0%)							
	FREQUENCY[Hz]		47 - 440 or D	С							
INPUT	EFFICIENCY[%]		71typ	78typ	80typ	81typ	82typ	82typ	82typ	82typ	
	INRUSH CURRENT[A]	ACIN 100V	30typ (lo=100%) (At cold start)								
	LEAKAGE CURREN	T[mA]	0.5max (60Hz, According to UL, CSA and DEN-AN)								
	VOLTAGE[V]		3	5	12	15	24	24	36	48	
	CURRENT[A]	*3	10	10	4.3	3.5	2.5	2.5 (Peak 3)	1.7	1.3	
	LINE REGULATION[mV]		20max	20max	48max	60max	96max	96max	144max	192max	
	LOAD REGULATION[mV]		40max	40max	100max	120max	150max	150max	240max	300max	
	RIPPLE[mVp-p]	0 to +50℃ *1	80max	80max	120max	120max	120max	120max	150max	150max	
	un reclinah-h]	-10 - 0℃ *1	140max	140max	160max	160max	160max	160max	200max	200max	
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	120max	120max	150max	150max	150max	150max	250max	350max	
OUTPUT	III FEE NOISE[IIIVP-P]	-10 - 0℃ *1	160max	160max	180max	180max	180max	180max	300max	400max	
	TEMPERATURE REGULATION(mV)	0 to +50℃	50max	50max	120max	150max	240max	240max	360max	480max	
		-10 to +50℃	60max	60max	150max	180max	290max	290max	450max	600max	
	DRIFT[mV]	*2	20max	20max	48max	60max	96max	96max	144max	192max	
	START-UP TIME[ms]		200max (ACII	N 85V, lo=100	%)						
	HOLD-UP TIME[ms]		10typ (ACIN 8		20typ (ACIN 1						
			2.85 - 3.6					s optional: 5, 12		$\frac{48V \pm 10\%}{2}$	
	OUTPUT VOLTAGE SET			4.9 - 5.3	11.5 - 12.5	14.4 - 15.6	23.0 - 25.0	23.0 - 25.0	34.5 - 37.5	46.0 - 50.0	
	OVERCURRENT PROT										
PROTECTION	OVERVOLTAGE PROTE		4.00 - 5.25V Works at 115 - 140% of rating								
	OPERATING INDICA	TION	Not provided								
OTHERS	REMOTE SENSING		Not provided								
	REMOTE ON/OFF		Not provided								
	INPUT-OUTPUT		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)								
ISOLATION	INPUT-FG							m Temperature			
	OUTPUT-FG							m Temperature			
	OPERATING TEMP.,HUMID.AND							VE), 3,000m (1	0,000feet) ma	x	
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	-		Non condensin	0.					
	VIBRATION				minutes period		ch along X, Y	and Z axis			
	IMPACT				e each X, Y a						
NOISE	AGENCY APPROVAL				60950-1 Com	olies with DEN-	AN				
REGULATIONS	CONDUCTED NOISE			FCC-B, VCC							
OTHERS	CASE SIZE/WEIGHT			mm (W×H×D) / 200g max						
-	COOLING METHOD		Convection								

*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN : RM101).
 *2 Drift is the change 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.

*3 Peak load for 10 sec. or less is acceptable(The average current has to be less than the rated current).

*4 Please contact us about safety approvals for the model with option.





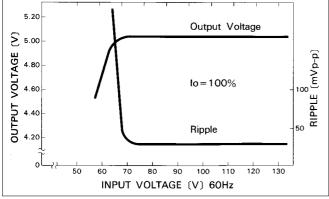
(Mfr : J.S.T.)

	Pin No.	Input			Pin No.	Output	
	1	AC(L)					
4			CN2	1.2	-v		
	3	AC(N)		UNZ			
	4				3.4	+V	
	5	FG					
* Mavi	mum Fr	A ner nin o	£ CN2 c	an ho	applied		

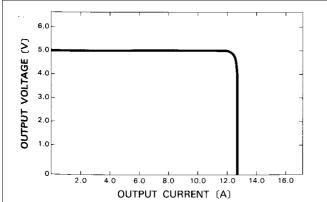
※Tolerance : ±1 ※Dimensions in mm * PCB Material : Glass composite (CEM3)

Performance data

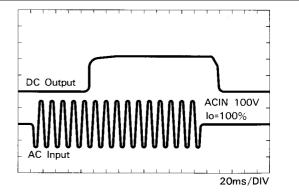


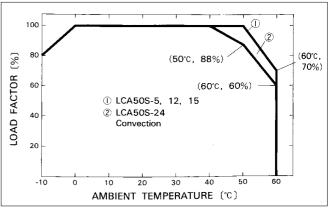


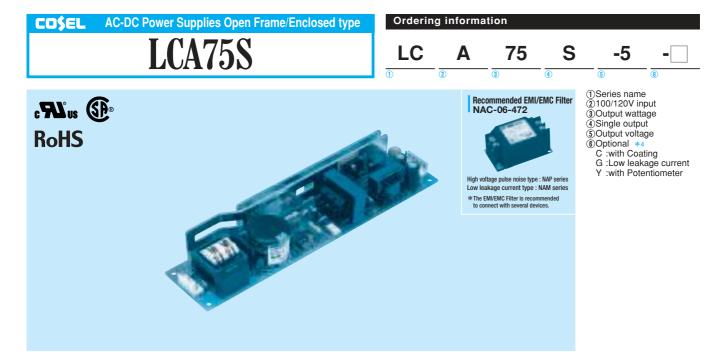
OVERCURRENT CHARACTERISTICS (LCA50S-5)



RISE TIME & FALL TIME (LCA50S-5)







MODEL	LCA75S-3	LCA75S-5	LCA75S-12	LCA75S-15	LCA75S-24	LCA75S-24-H	LCA75S-36	LCA75S-48
MAX OUTPUT WATTAGE[W]	45	75	75.6	75	76.8	76.8	75.6	76.8
DC OUTPUT	3V 15A	5V 15A	12V 6.3A	15V 5A	24V 3.2A	24V 3.2A	36V 2.1A	48V 1.6A

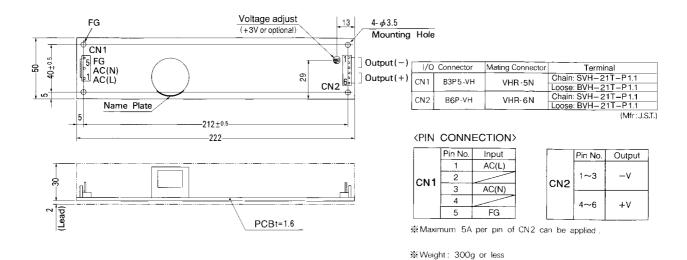
	MODEL		LCA75S-3	LCA75S-5	LCA75S-12	LCA75S-15	LCA75S-24	LCA75S-24-H	LCA75S-36	LCA75S-48		
	VOLTAGE[V]		AC85 - 132 1 \$\phi\$ or DC110 - 170									
INPUT	CURRENT[A] ACIN 100V		1.9typ (lo=100%)									
	FREQUENCY[Hz]		47 - 440 or DC									
	EFFICIENCY[%]		72typ	79typ	81typ	83typ	84typ	84typ	84typ	84typ		
	INRUSH CURRENT[A] ACIN 100V		30typ (lo=100%) (At cold start)									
	LEAKAGE CURRENT[mA]		0.5max (60Hz	z, According to	UL, CSA and	DEN-AN)						
	VOLTAGE[V]		3	5	12	15	24	24	36	48		
	CURRENT[A]	*3	15	15	6.3	5	3.2	3.2 (Peak 4.2)	2.1	1.6		
	LINE REGULATION[mV]	20max	20max	48max	60max	96max	96max	144max	192max		
	LOAD REGULATION	[mV]	40max	40max	100max	120max	150max	150max	240max	300max		
	RIPPLE[mVp-p]	0 to +50℃ *1	80max	80max	120max	120max	120max	120max	150max	150max		
	пеессіпур-рј	-10 - 0°C *1	140max	140max	160max	160max	160max	160max	200max	200max		
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	120max	120max	150max	150max	150max	150max	250max	350max		
OUTPUT		-10 - 0℃ *1	160max	160max	180max	180max	180max	180max	300max	400max		
	TEMPERATURE REGULATION[mV]	0 to +50℃		50max	120max	150max	240max	240max	360max	480max		
		-10 to +50℃	60max	60max	150max	180max	290max	290max	450max	600max		
	DRIFT[mV] *2		20max	20max	48max	60max	96max	96max	144max	192max		
	START-UP TIME[ms]		200max (ACIN 85V, Io=100%)									
	HOLD-UP TIME[ms]		10typ (ACIN 85V, lo=100%) 20typ (ACIN 100V, lo=100%) 2.85 - 3.6 Fixed ("Y"which can be adjusted the output is available as optional: 5, 12, 15, 24, 36, 48V ±10%									
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.6		, ,		1	, '				
	OUTPUT VOLTAGE SETTING[V]			4.9 - 5.3	11.5 - 12.5	14.4 - 15.6	23.0 - 25.0	23.0 - 25.0	34.5 - 37.5	46.0 - 50.0		
	OVERCURRENT PROTECTION											
PROTECTION	OVERVOLTAGE PROTECTION											
CIRCUIT AND OTHERS	OPERATING INDICATION		Not provided									
UTHERS	REMOTE SENSING		Not provided									
	REMOTE ON/OFF		Not provided									
	INPUT-OUTPUT		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)									
ISOLATION	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)									
	OPERATING TEMP.,HUMID.AND ALTITUDE											
ENVIRONMENT	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max 10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis									
	VIBRATION						ch along X, Y	and Z axis				
CAFETY AND		-)G), 11ms, ond								
NOISE	AGENCY APPROVAL					lies with DEN-	۹N					
REGULATIONS				FCC-B, VCCI								
OTHERS	CASE SIZE/WEIGHT			mm (W×H×D) / 300g max							
	COOLING METHOD		Convection									

*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN : RM101).
 *2 Drift is the change 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.

*3 Peak load for 10 sec. or less is acceptable(The average current has to be less than the rated current).

*4 Please contact us about safety approvals for the model with option.



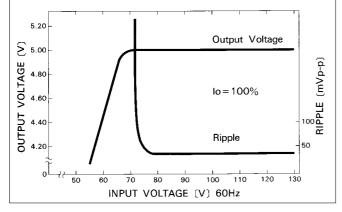


※ Dimensions in mm. ※ PCB Material: Glass composite (CEM 3)

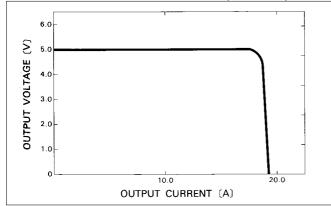
※Tolerance : ±1

Performance data

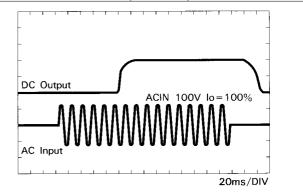
STATIC CHARACTERISTICS (LCA75S-5)

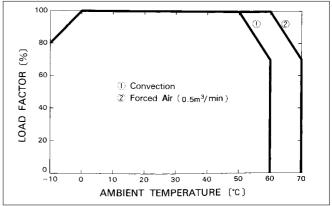


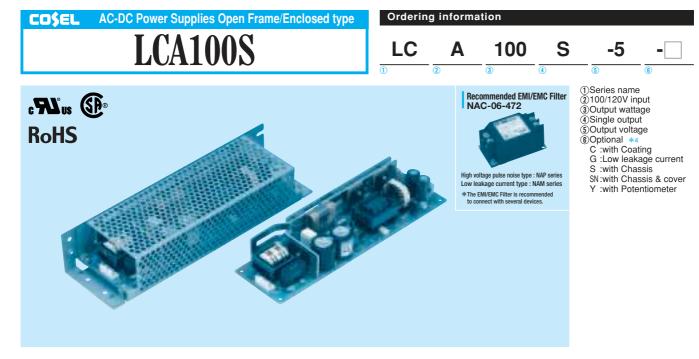
OVERCURRENT CHARACTERISTICS (LCA75S-5)



RISE TIME & FALL TIME (LCA75S-5)







MODEL	LCA100S-3	LCA100S-5	LCA100S-12	LCA100S-15	LCA100S-24	LCA100S-24-H	LCA100S-36	LCA100S-48
MAX OUTPUT WATTAGE[W]	60	100	102	105	103.2	103.2	108	105.6
DC OUTPUT	3V 20A	5V 20A	12V 8.5A	15V 7A	24V 4.3A	24V 4.3A	36V 3A	48V 2.2A

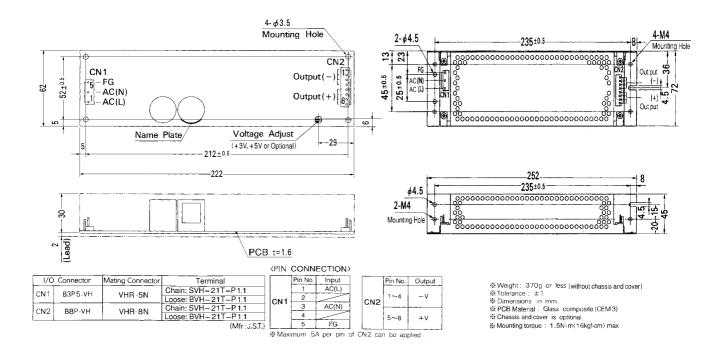
	MODEL		LCA100S-3		LCA100S-12	LCA100S-15	LCA100S-24	LCA100S-24-H	LCA100S-36	LCA100S-4					
	VOLTAGE[V]		AC85 - 132 1 φ or DC110 - 170												
INPUT	CURRENT[A] ACIN 100V		2.5typ (lo=100%)												
	FREQUENCY[Hz]		47 - 440 or DC												
	EFFICIENCY[%]		74typ	79typ	83typ	84typ	85typ	85typ	85typ	85typ					
	INRUSH CURRENT[A] ACIN 100V		/ 15typ (lo=100%)												
	LEAKAGE CURRENT[mA]		0.5max (60H;	z, According to	UL, CSA and	DEN-AN)									
	VOLTAGE[V]		3	5	12	15	24	24	36	48					
	CURRENT[A]	*3	20	20	8.5	7	4.3	4.3 (Peak 7)	3	2.2					
	LINE REGULATION[mV]	20max	20max	48max	60max	96max	96max	144max	192max					
	LOAD REGULATION	[mV]	40max	40max	100max	120max	150max	150max	240max	300max					
	RIPPLE[mVp-p]	0 to +50℃ *1	80max	80max	120max	120max	120max	120max	150max	150max					
	пеессішур-рј	-10 - 0℃ *1	140max	140max	160max	160max	160max	160max	200max	200max					
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	120max	120max	150max	150max	150max	250max	250max	350max					
OUTPUT		-10 - 0℃ *1	160max	160max	180max	180max	180max	280max	300max	400max					
	TEMPERATURE REGULATION(mV)	0 to +50℃	50max	50max	120max	150max	240max	240max	360max	480max					
		-10 to +50℃	60max	60max	150max	180max	290max	290max	450max	600max					
	DRIFT[mV] *2		20max	20max	48max	60max	96max	96max	144max	192max					
	START-UP TIME[ms]		200max (ACIN 85V, lo=100%)												
	HOLD-UP TIME[ms]		10typ (ACIN 85V, Io=100%) 20typ (ACIN 100V, Io=100%)												
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.6	4.5 - 5.5	Fixed ("Y"which	can be adjuste	d the output is a	vailable as option	nal: 12, 15, 24, 3	$36,48V \pm 10$					
	OUTPUT VOLTAGE SETTING[V]				11.5 - 12.5	14.4 - 15.6	23.0 - 25.0	23.0 - 25.0	34.5 - 37.5	46.0 - 50.					
	OVERCURRENT PROTECTION		Works over 105% of rating (works over 105% of peak current at option -H) and recovers automatically												
PROTECTION	OVERVOLTAGE PROTECTION		4.00 - 5.25V Works at 115 - 140% of rating												
CIRCUIT AND	OPERATING INDICATION		Not provided												
OTHERS	REMOTE SENSING		Not provided												
	REMOTE ON/OFF		Not provided												
	INPUT-OUTPUT		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)												
SOLATION	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)												
	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +60°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max												
ENVIRONMENT	STORAGE TEMP., HUMID. AND ALTITUDE		-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max												
	VIBRATION		10 - 55Hz, 19	0.6m/s ² (2G), 3	minutes period	60minutes ea	ch along X, Y a	and Z axis							
	IMPACT		196.1m/s ² (20)G), 11ms, onc	e each X, Y ar	d Z axis									
SAFETY AND	AGENCY APPROVAL	S	UL60950-1, C	SA C22.2 No.	60950-1 Comp	ies with DEN-A	AN								
REGULATIONS	CONDUCTED NOISE		Complies with	n FCC-B, VCCI	I-B										
	CASE SIZE/WEIGHT		62×32×222	mm (W×H×D) / 370g max (v	vithout chassis	and cover)								
THERS	COOLING METHOD		Convection												

*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN : RM101).
 *2 Drift is the change 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.
 *3 Peak load for 20 sec. or less is acceptable(The average current has to be less than the rated current).

*4 Please contact us about safety approvals for the model with option.
 * Derating is required when operated with chassis and cover.

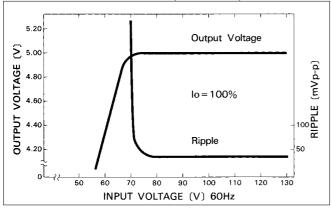
LCA100S | COŞEL

External view

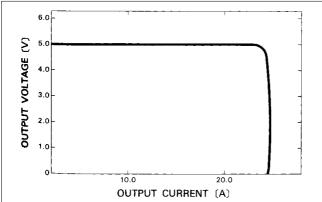


Performance data

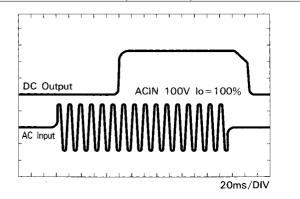
STATIC CHARACTERISTICS (LCA100S-5)

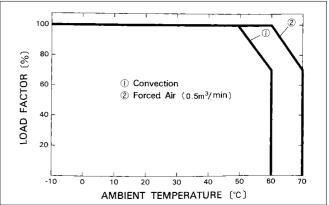


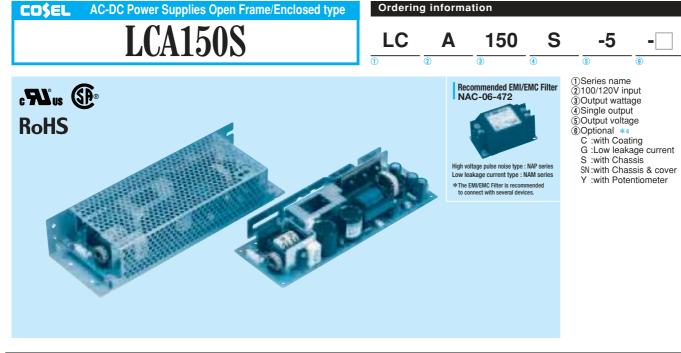
OVERCURRENT CHARACTERISTICS (LCA100S-5)



■RISE TIME & FALL TIME (LCA100S-5)







MODEL	LCA150S-3	LCA150S-5	LCA150S-12	LCA150S-15	LCA150S-24	LCA150S-24-H	LCA150S-36	LCA150S-48
MAX OUTPUT WATTAGE[W]	90	150	150	150	151.2	151.2	151.2	153.6
DC OUTPUT	3V 30A	5V 30A	12V 12.5A	15V 10A	24V 6.3A	24V 6.3A	36V 4.2A	48V 3.2A

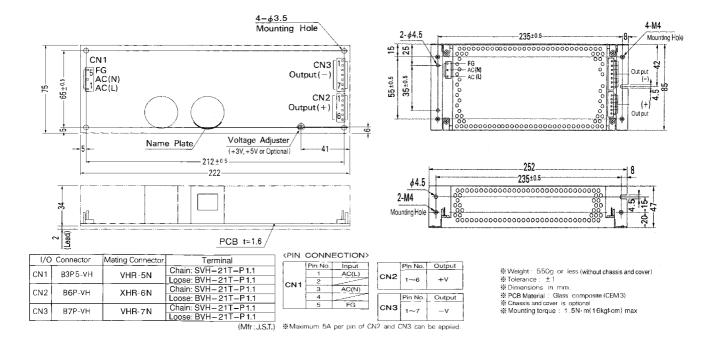
	MODEL		LCA150S-3		LCA150S-12	LCA150S-15	LCA150S-24	LCA150S-24-H	LCA150S-36	LCA150S-					
	VOLTAGE[V]		AC85 - 132 1 φ or DC110 - 170												
INPUT	CURRENT[A] ACIN 100V		3.6typ (lo=100%)												
	FREQUENCY[Hz]		47 - 440 or DC												
	EFFICIENCY[%]		72typ	79typ	82typ	83typ	85typ	85typ	85typ	85typ					
	INRUSH CURRENT[A] ACIN 100V		15typ (lo=100%)												
	LEAKAGE CURRENT[mA]		0.5max (60Hz	, According to	UL, CSA and	DEN-AN)									
	VOLTAGE[V]		3	5	12	15	24	24	36	48					
	CURRENT[A]	*3	30	30	12.5	10	6.3	6.3 (Peak 10)	4.2	3.2					
	LINE REGULATION[mV]	20max	20max	48max	60max	96max	96max	144max	192max					
	LOAD REGULATION	[mV]	40max	40max	100max	120max	150max	150max	240max	300max					
	RIPPLE[mVp-p]	0 to +50℃ *1	80max	80max	120max	120max	120max	120max	150max	150max					
	пеессіпур-рј	-10 - 0℃ *1	140max	140max	160max	160max	160max	160max	200max	200max					
	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	120max	150max	150max	150max	150max	250max	350max					
OUTPUT		-10 - 0°C *1	160max	160max	180max	180max	180max	180max	300max	400max					
		0 to +50℃		50max	120max	150max	240max	240max	360max	480max					
		-10 to +50℃	60max	60max	150max	180max	290max	290max	450max	600max					
	DRIFT[mV] *2		20max	20max	48max	60max	96max	96max	144max	192max					
[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 ADJUSTMENT RANGE[V]		2.85 - 3.6	4.5 - 5.5	Fixed ("Y"which	can be adjuste			nal: 12, 15, 24, 3	$36,48V \pm 10$					
	OUTPUT VOLTAGE SETTING[V]				11.5 - 12.5	14.4 - 15.6	23.0 - 25.0	23.0 - 25.0	34.5 - 37.5	46.0 - 50.					
	OVERCURRENT PROTECTION														
PROTECTION	OVERVOLTAGE PROTECTION		4.00 - 5.25V Works at 115 - 140% of rating												
CIRCUIT AND	OPERATING INDICATION		Not provided												
OTHERS	REMOTE SENSING		Not provided												
	REMOTE ON/OFF		Not provided												
	INPUT-OUTPUT		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)												
ISOLATION	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)												
	OPERATING TEMP.,HUMID.AND ALTITUDE														
ENVIRONMENT	STORAGE TEMP.,HUMID.AND ALTITUDE		J,												
	VIBRATION				minutes period		ch along X, Y a	and Z axis							
	IMPACT				e each X, Y ar										
SAFETY AND	AGENCY APPROVAL	LS			60950-1 Comp	ies with DEN-A	AN								
REGULATIONS	CONDUCTED NOISE			FCC-B, VCCI											
OTHERS	CASE SIZE/WEIGHT		75×36×222	mm (W×H×D) / 550g max (v	vithout chassis	and cover)								
	COOLING METHOD		Convection												

*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN : RM101).
 *2 Drift is the change 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.
 *3 Peak load for 15 sec. or less is acceptable(The average current has to be less than the rated current).

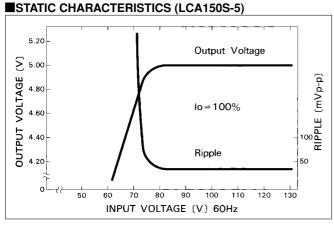
*4

Please contact us about safety approvals for the model with option. Derating is required when operated with chassis and cover. *

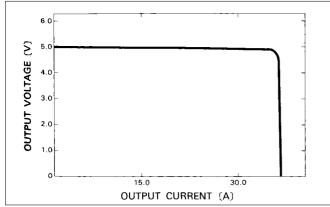




Performance data



OVERCURRENT CHARACTERISTICS (LCA150S-5)



RISE TIME & FALL TIME (LCA150S-5)

