

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

	MODEL		LCA10S-5	LCA10S-5-H	LCA10S-12	LCA10S-15	LCA10S-24			
	VOLTAGE[V]		AC85 - 132 1φ ο	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 CURRENT[mA]		0.5max (60Hz, Ad	ccording to UL, CSA a	and DEN-AN)					
	VOLTAGE[V]		5	5	12	15	24			
	CURRENT[A]		2	2 (Peak 3)	0.9	0.7	0.5			
	LINE REGULATION	l[mV]	20max	20max	48max	60max	96max			
	LOAD REGULATIO	N[mV]	40max	40max	100max	120max	150max			
		0 to +50℃ *1	80max	80max	120max	120max	120max			
	RIPPLE[mVp-p]	-10 - 0℃ *1	140max	140max	160max	160max	160max			
		0 to +50℃ *1	120max	120max	150max	150max	150max			
OUTPUT	RIPPLE NOISE[mVp-p]	-10 - 0°C *1	160max	160max	180max	180max	180max			
	TEMPERATURE REGULATION[mV]		50max	50max	120max	150max	240max			
	DRIFT[mV]	*2	20max	20max	48max	60max	96max			
	START-UP TIME[m	s]	100max (ACIN 85	5V, lo=100%)						
	HOLD-UP TIME[ms	5]	10typ (ACIN 85V,	lo=100%) 20typ (AC	IN 100V, lo=100%)					
	OUTPUT VOLTAGE ADJUSTMENT	RANGE[V]	Fixed ("Y"which c	an be adjusted the or	utput is available as	optional:5V -5 to +10	% : 12, 15, 24V ±10			
	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	Works over 105% of rating (works over 105% of peak current at option -H) and recovers automatically							
PROTECTION	OVERVOLTAGE PROTE	ECTION	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 1minut	e, Cutoff current = 10	mA, DC500V 50MΩ	min (At Room Temp	erature)			
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%RH (Non conde	nsing) (Refer to DEF	RATING CURVE), 3,0	00m (10,000feet) ma			
	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75°C, 20	- 90%RH (Non conde	nsing), 9,000m (30,0	000feet) max				
ENVIRONMENT	VIBRATION		10 - 55Hz, 19.6m	/s ² (2G), 3minutes pe	riod, 60minutes eacl	n along X, Y and Z a	kis			
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis							
SAFETY AND	AGENCY APPROV	ALS	UL60950-1, CSA	C22.2 No.60950-1 C	omplies with DEN-Al	N				
NOISE REGULATIONS	CONDUCTED NOIS	SE	Complies with FC	C-B, VCCI-B						
	CASE SIZE/WEIGH	IT	49×17×94mm (W×H×D) / 65g max						
OTHERS	COOLING METHO	n	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.

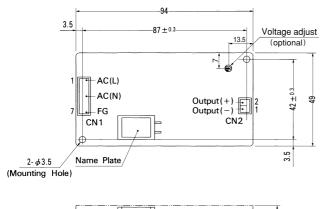
* Avoid prolonged use under over-load.

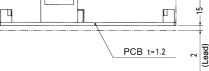


Output

-V

+ V





I/C	Connector	Mating Connector	Terminal
CN1	B3(7.5)B-XH-A	XHP-7	Chain: SXH-001T-P0.6
	00(7.0)0 XITA	7111 -7	Loose: BXH-001T-P0.6
CN2	B2B-XH-A	XHP-2	Chain: SXH-001T-P0.6
	DZD-AII-A	Am -2	Loose: BXH-001T-P0.6
			(Mfr : J.S.T

<PIN CONNECTION> Pin No. Input

2

3

456

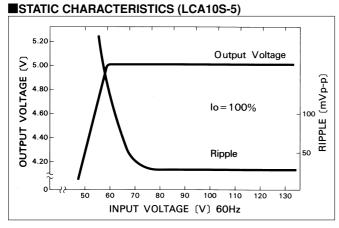
CN1

Input		Pin No
AC(L)	CN2	1
\sim		2
/		
AC(N)		

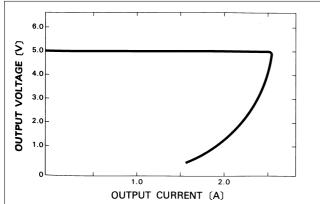
Weight: 65g or less
Tolerance: ±1
Dimensions in mm.
PCB Material: Glass composite (CEM3)

FG

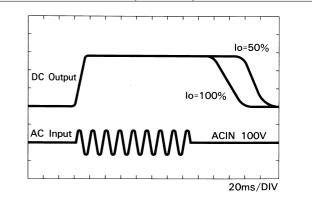
Performance data

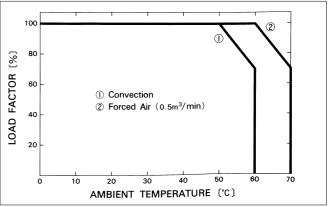


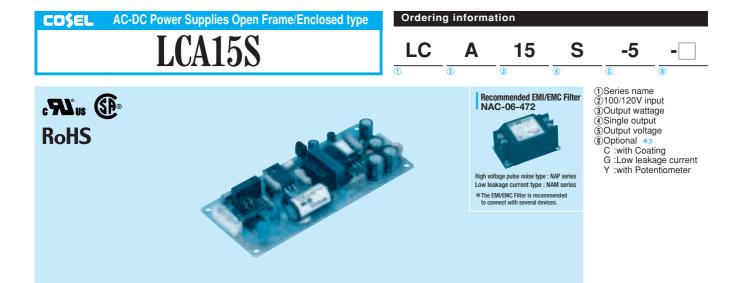
OVERCURRENT CHARACTERISTICS (LCA10S-5)



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

L

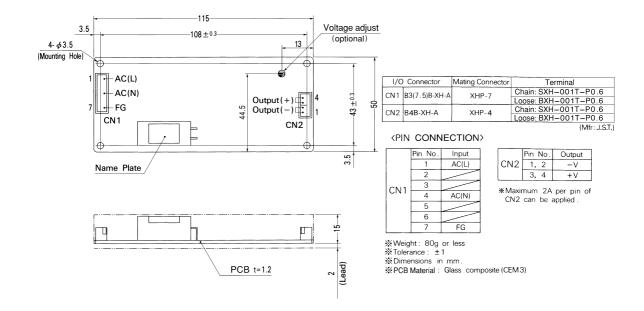
	MODEL		LCA15S-5	LCA15S-12	LCA15S-15	LCA15S-24				
	VOLTAGE[V]		AC85 - 132 1 φ or DC	2110 - 170						
	CURRENT[A]	ACIN 100V	0.4typ (lo=100%)							
	FREQUENCY[Hz]		47 - 440 or DC							
	EFFICIENCY[%]		72typ	75typ	75typ	78typ				
	INRUSH CURRENT[A]	ACIN 100V	20typ (lo=100%) (At cold start)							
	LEAKAGE CURREN	NT[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	V[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				
DUTPUT	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	120max	150max	150max	150max				
JUIPUI		-10 - 0°C *1	160max	180max	180max	180max				
	TEMPERATURE REGULATION[mV]		50max	120max	150max	240max				
	DRIFT[mV]	*2	20max	48max	60max	96max				
	START-UP TIME[m	s]	100max (ACIN 85V, I	o=100%)						
	HOLD-UP TIME[ms	s]	10typ (ACIN 85V, Io=	100%) 20typ (ACIN 100'	V, Io=100%)					
	OUTPUT VOLTAGE ADJUSTMENT	T RANGE[V]	Fixed ("Y"which can b	e adjusted the output is	available as optional:5V -	5 to +10% : 12, 15, 24V ±109				
	OUTPUT VOLTAGE SETTING[V]		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	3	Not provided							
	REMOTE ON/OFF		Not provided							
	INPUT-OUTPUT		AC2,000V 1minute, C	utoff current = 10mA, D	C500V 50M $_\Omega$ min (At Roc	om Temperature)				
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)							
	OUTPUT-FG		AC500V 1minute, Cut	off current = 100mA, DC	$500V 50M\Omega$ min (At Room	m Temperature)				
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +60°C, 20 - 90°	%RH (Non condensing)	(Refer to DERATING CUR	VE), 3,000m (10,000feet) max				
	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75°C, 20 - 90°	%RH (Non condensing),	9,000m (30,000feet) max					
	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, CSA C22	.2 No.60950-1 Complies	with DEN-AN					
REGULATIONS	CONDUCTED NOIS	SE	Complies with FCC-B	, VCCI-B						
OTHERS	CASE SIZE/WEIGH	П	50×17×115mm (W>	<h 80g="" d)="" max<="" td="" x=""><td></td><td></td></h>						
JINENJ	COOLING METHO	D	Convection							

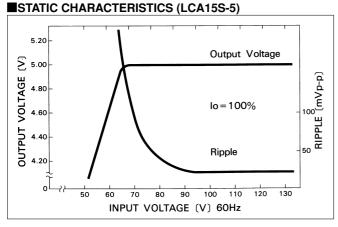
*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN : RM101).
 *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C with the input voltage held constant at the rated input/output.

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

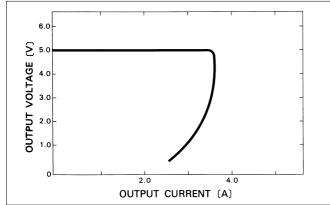
* Avoid prolonged use under over-load.



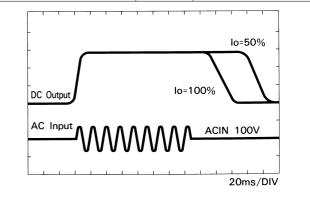


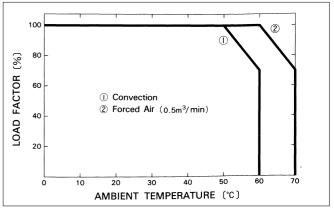


OVERCURRENT CHARACTERISTICS (LCA15S-5)



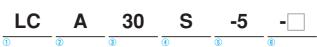
RISE TIME & FALL TIME (LCA15S-5)



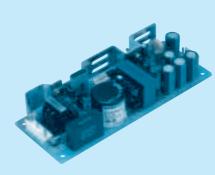




Ordering information



LCA30S



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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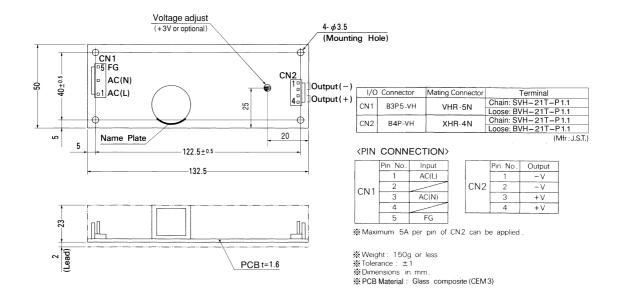
RoHS

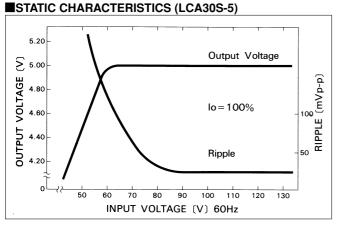
	MODEL		LCA30S-3	LCA30S-5	LCA30S-12	LCA30S-15	LCA30S-24	LCA30S-36	LCA30S-48			
	VOLTAGE[V]		AC85 - 132 1	φ or DC110 -	170							
	CURRENT[A]	ACIN 100V	0.7typ (lo=100%)									
INPUT	FREQUENCY[Hz]		47 - 440 or D	С								
INPUT	EFFICIENCY[%]		69typ	75typ	80typ	81typ	82typ	80typ	80typ			
	INRUSH CURRENT[A]	ACIN 100V	25typ (lo=100	%) (At cold sta	art)	•						
	LEAKAGE CURREN	NT[mA]	0.5max (60Hz	0.5max (60Hz, According to UL, CSA and DEN-AN)								
	VOLTAGE[V]		3	5	12	15	24	36	48			
	CURRENT[A]		6	6	2.5	2	1.3	0.9	0.7			
	LINE REGULATION	N[mV]	20max	20max	48max	60max	96max	144max	192max			
	LOAD REGULATION[mV]		40max	40max	100max	120max	150max	240max	300max			
		0 to +50℃ *1	80max	80max	120max	120max	120max	150max	150max			
	RIPPLE[mVp-p]	-10 - 0℃ *1	140max	140max	160max	160max	160max	200max	200max			
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	120max	120max	150max	150max	150max	250max	350max			
		-10 - 0℃ *1	160max	160max	180max	180max	180max	300max	400max			
	TEMPERATURE REGULAT	TION[mV]	50max	50max	120max	150max	240max	360max	480max			
	DRIFT[mV]	*2	20max	20max	48max	60max	96max	144max	192max			
	START-UP TIME[m	is]	100max (ACII	N 85V, lo=1009	%)							
	HOLD-UP TIME[ms	s]	10typ (ACIN 8		20typ (ACIN 10							
	OUTPUT VOLTAGE ADJUSTMENT	T RANGE[V]	2.85 - 3.6	Fixed ("Y"which	can be adjusted the	e output is available	as optional:5V -5	to +10% : 12, 15, 2	24, 36, 48V ±10			
	OUTPUT VOLTAGE SETTING[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 PROT	ECTION										
PROTECTION	OVERVOLTAGE PROTE	ECTION	4.00V min 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 1m	ninute, Cutoff c	urrent = 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 1min	ute, Cutoff cur	rent = 100mA, [DC500V 50M Ω	min (At Room	Temperature)				
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +60°C,	20 - 90%RH (I	Non condensing) (Refer to DEF	ATING CURVE	E), 3,000m (10,0	000feet) max			
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75℃,	20 - 90%RH (I	Non condensing), 9,000m (30,0	00feet) max					
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis									
	IMPACT		196.1m/s ² (20	G), 11ms, onc	e each X, Y and	d Z axis						
SAFETY AND	AGENCY APPROV	ALS	UL60950-1, C	SA C22.2 No.	60950-1 Compli	es with DEN-AN	1					
REGULATIONS	CONDUCTED NOIS	SE	Complies with	n FCC-B, VCCI	-B							
OTHERS	CASE SIZE/WEIGH	IT	50×25×132.	5mm (W×H×	D) / 150g max							
UITERS	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.

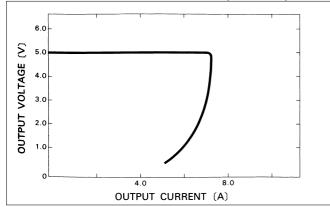
*3 Please contact us about safety approvals for the model with option.

* Avoid prolonged use under over-load.

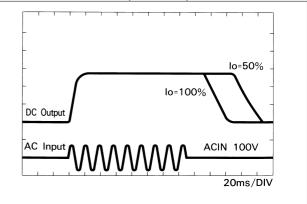


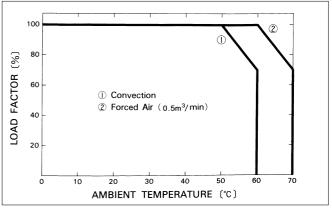


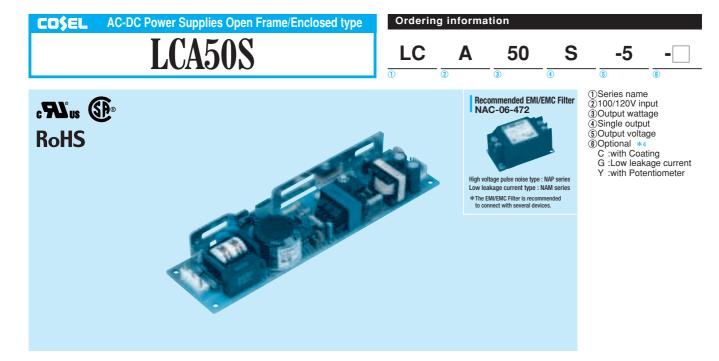




RISE TIME & FALL TIME (LCA30S-5)







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

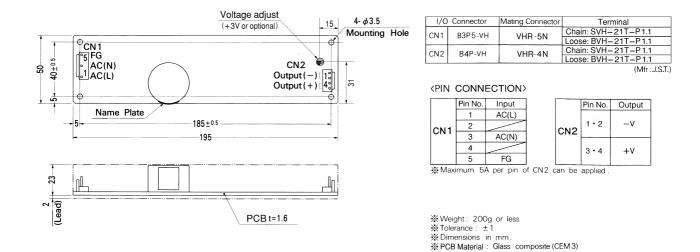
	MODEL		LCA50S-3	LCA50S-5	LCA50S-12	LCA50S-15	LCA50S-24	LCA50S-24-H	LCA50S-36	LCA50S-4	
	VOLTAGE[V]		AC85 - 132 1	φ or DC110 -	170						
	CURRENT[A]	ACIN 100V	1.3typ (lo=100%)								
	FREQUENCY[Hz]		47 - 440 or DC								
INPUT	EFFICIENCY[%]		71typ	78typ	80typ	81typ	82typ	82typ	82typ	82typ	
	INRUSH CURRENT[A]	ACIN 100V									
	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	
		-10 - 0℃ *1	140max	140max	160max	160max	160max	160max	200max	200max	
RIDE	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	120max	120max	150max	150max	150max	150max	250max	350max	
OUTPUT		-10 - 0°C *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	48max	60max	96max	96max	144max	192max	
	START-UP TIME[ms]			N 85V, Io=100	,						
	HOLD-UP TIME[ms]					00V, lo=100%)					
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.6				1	s optional: 5, 12			
	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.	
	OVERCURRENT PROT										
PROTECTION	OVERVOLTAGE PROTE		4.00 - 5.25V Works at 115 - 140% of rating								
CIRCUIT AND OTHERS	OPERATING INDICA	TION	Not provided								
UTHENS	REMOTE SENSING		Not provided								
	REMOTE ON/OFF		Not provided AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)								
	INPUT-OUTPUT										
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature) AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)								
	OUTPUT-FG										
	OPERATING TEMP., HUMID. AND		-			0		VE), 3,000m (1	0,000feet) ma	x	
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALIIIUDE	-			g), 9,000m (30					
	VIBRATION					, 60minutes ea	ch along X, Y	and Z axis			
					e each X, Y a		4.51				
NOISE	AGENCY APPROVAL	-				olies with DEN-	AN				
REGULATIONS	CONDUCTED NOISE			FCC-B, VCC							
OTHERS	CASE SIZE/WEIGHT			mm (W×H×D) / 200g max						
	COOLING METHOD		Convection								

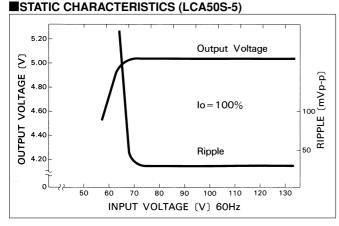
*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN : RM101).
 *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C with the input voltage held constant at the rated input/output.

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

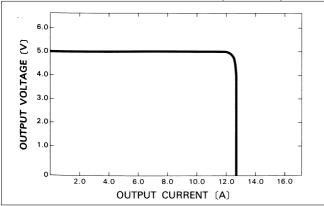
*4 Please contact us about safety approvals for the model with option.



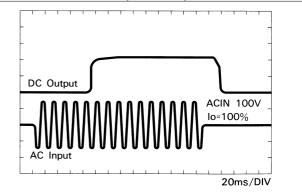


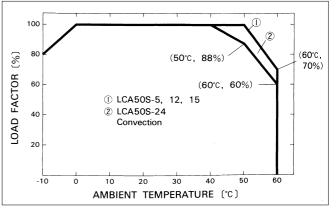


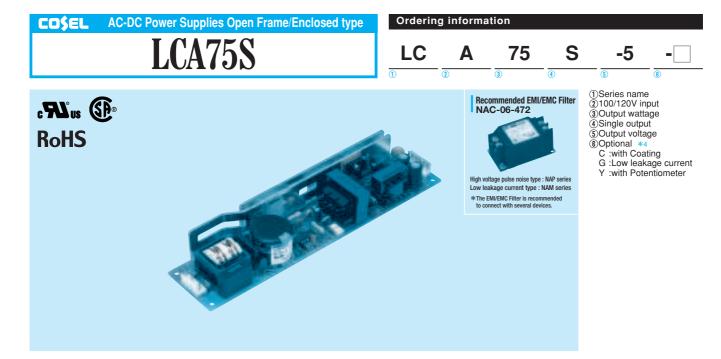
OVERCURRENT CHARACTERISTICS (LCA50S-5)



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

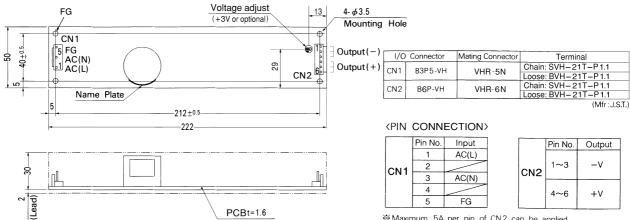
	MODEL		LCA75S-3	LCA75S-5	LCA75S-12	LCA75S-15	LCA75S-24	LCA75S-24-H	LCA75S-36	LCA75S-48	
	VOLTAGE[V]		AC85 - 132 1	ϕ or DC110 -	170						
	CURRENT[A]	ACIN 100V									
	FREQUENCY[Hz]		47 - 440 or D	С							
INPUT	EFFICIENCY[%]		72typ	79typ	81typ	83typ	84typ	84typ	84typ	84typ	
	INRUSH CURRENT[A]	ACIN 100V	30typ (lo=100%) (At cold start)								
	LEAKAGE CURRENT[mA]		0.5max (60Hz, 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	
		-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		-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]			N 85V, lo=100							
	HOLD-UP TIME[ms]				21	00V, lo=100%)					
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.6		,		1	s optional: 5, 12			
	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								
CIRCUIT AND OTHERS	OPERATING INDICA	TION	Not provided								
UTHERS	REMOTE SENSING		Not provided								
	REMOTE ON/OFF		Not provided AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)								
	INPUT-OUTPUT						、		,		
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	-			g), 9,000m (30					
	VIBRATION				I	, 60minutes ea	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.



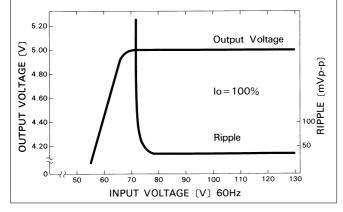


⅔Maximum 5A per pin of CN2 can be applied

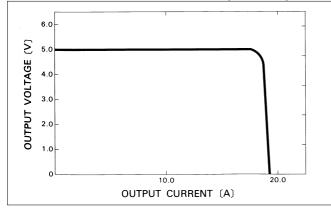
%Weight: 300g or less * Tolerance : ±1 * Dimensions in mm * PCB Material : Glass composite (CEM 3)

Performance data

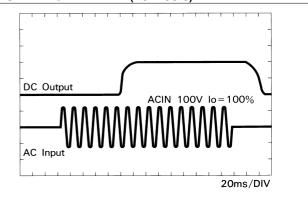
STATIC CHARACTERISTICS (LCA75S-5)

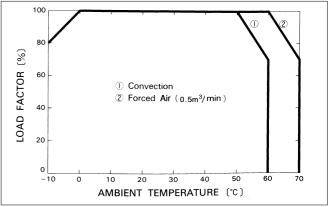


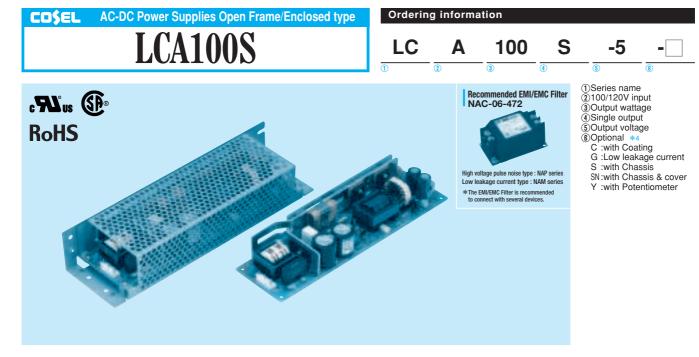
OVERCURRENT CHARACTERISTICS (LCA75S-5)



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

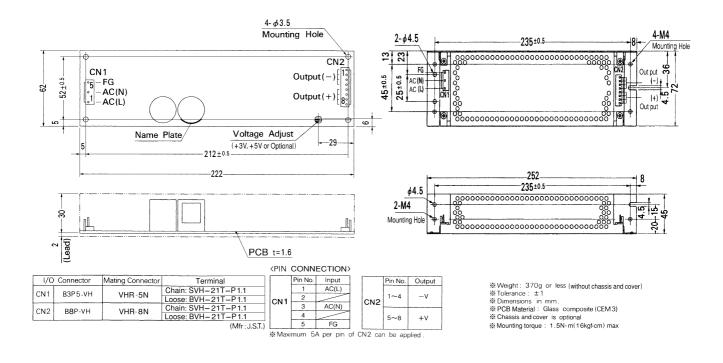
	MODEL		LCA100S-3		LCA100S-12	LCA100S-15	LCA100S-24	LCA100S-24-H	LCA100S-36	LCA100S-4		
	VOLTAGE[V]		AC85 - 132 1 φ or DC110 - 170									
INPUT	CURRENT[A] ACIN 100V		/ 2.5typ (lo=100%)									
	FREQUENCY[Hz]		47 - 440 or D	С								
	EFFICIENCY[%]		74typ	79typ	83typ	84typ	85typ	85typ	85typ	85typ		
	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	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		
		-10 - 0℃ *1	140max	140max	160max	160max	160max	160max	200max	200max		
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1		120max	150max	150max	150max	250max	250max	350max		
OUTPUT	IIII I EE NOISE[IIIVP-P]	-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, 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	n can be adjuste	d the output is a	vailable as option	nal: 12, 15, 24, 3	36,48V ±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 - 50.0		
	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	-										
ENVIRONMENT	STORAGE TEMP.,HUMID.AND ALTITUDE											
	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 APPROVAL	S	UL60950-1, C	SA C22.2 No.	60950-1 Comp	lies with DEN-A	AN .					
REGULATIONS	CONDUCTED NOISE			FCC-B, VCC								
OTHERS	CASE SIZE/WEIGHT		62×32×222	mm (W×H×D) / 370g max (v	without chassis	and cover)					
UTIENS	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.

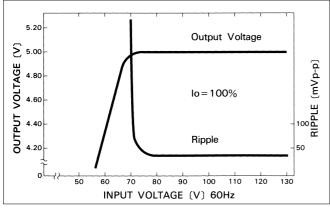
LCA100S | CO\$EL

External view

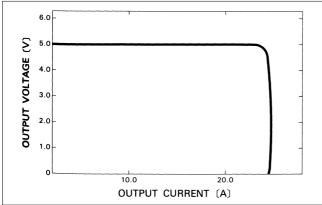


Performance data

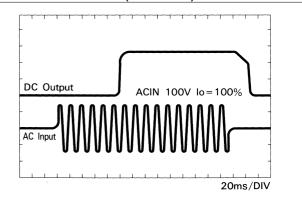
STATIC CHARACTERISTICS (LCA100S-5)

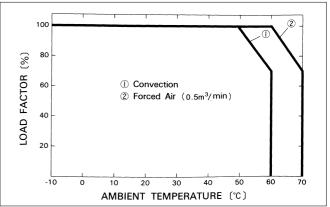


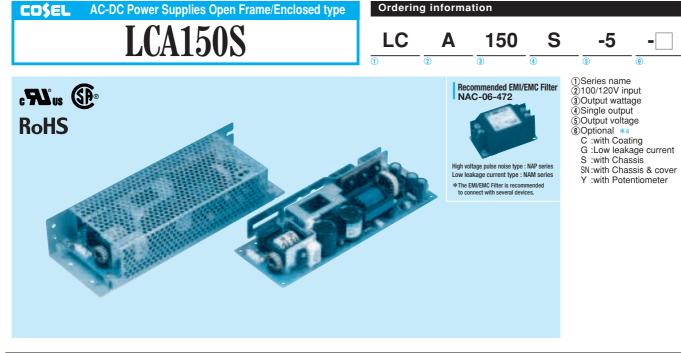
OVERCURRENT CHARACTERISTICS (LCA100S-5)



RISE TIME & FALL TIME (LCA100S-5)







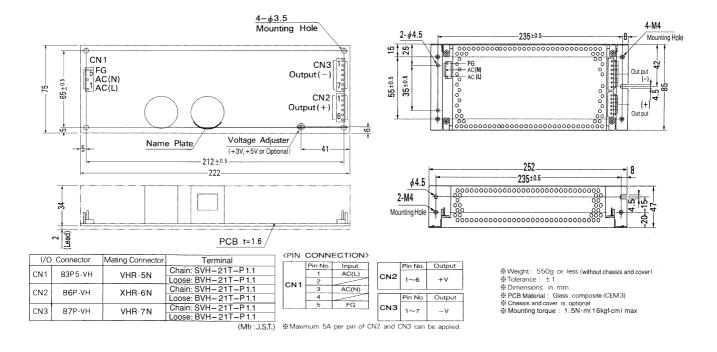
MODEL	LCA150S-3	LCA150S-5	LCA150S-12	LCA150S-15	LCA150S-24	LCA150S-24-H	LCA150S-36	LCA150S-48
MAX OUTPUT WATTAGE[W]	90	150	150	150	151.2	151.2	151.2	153.6
DC OUTPUT	3V 30A	5V 30A	12V 12.5A	15V 10A	24V 6.3A	24V 6.3A	36V 4.2A	48V 3.2A

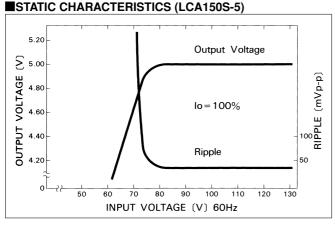
	MODEL		LCA150S-3		LCA150S-12	LCA150S-15	LCA150S-24	LCA150S-24-H	LCA150S-36	LCA150S-		
	VOLTAGE[V]		AC85 - 132 1 φ or DC110 - 170									
INPUT	CURRENT[A] ACIN 100V		/ 3.6typ (lo=100%)									
	FREQUENCY[Hz]		47 - 440 or D	С								
	EFFICIENCY[%]		72typ	79typ	82typ	83typ	85typ	85typ	85typ	85typ		
	INRUSH CURRENT[A] ACIN 100V											
	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		
	urtrelinah-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	RIPPLE NOISE[mvp-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 (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	d the output is a	vailable as option	nal: 12, 15, 24, 3	36,48V ±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)									
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°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max									
	STORAGE TEMP., HUMID.AND ALTITUDE		-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (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 axis									
SAFETY AND	AGENCY APPROVAL	.s	UL60950-1, C	SA C22.2 No.	60950-1 Comp	ies with DEN-A	AN .					
NOISE REGULATIONS	CONDUCTED NOISE			FCC-B, VCCI								
	CASE SIZE/WEIGHT		75×36×222	mm (W×H×D) / 550g max (\	vithout chassis	and cover)					
OTHERS	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).

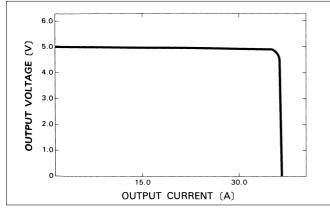
*4 Please contact us about safety approvals for the model with option.
 * Derating is required when operated with chassis and cover.







OVERCURRENT CHARACTERISTICS (LCA150S-5)



RISE TIME & FALL TIME (LCA150S-5)

