LCA10S

10







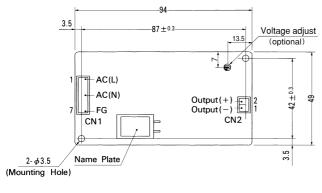
High voltage pulse noise type : NAP series Low leakage current type : NAM series *The EMI/EMC Filter is recommended to connect with several devices.

- ①Series name ②100/120V input ③Output wattage ④Single output
- ⑤Output 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

	MODEL		LCA10S-5	LCA10S-5-H	LCA10S-12	LCA10S-15	LCA10S-24				
	VOLTAGE[V]		AC85 - 132 1 φ or E	C110 - 170							
	CURRENT[A]	ACIN 100V	0.3typ (lo=100%)								
INPUT	FREQUENCY[Hz]		47 - 440 or DC								
INPUI	EFFICIENCY[%]		71typ	71typ	75typ	75typ	78typ				
	INRUSH CURRENT[A] AC		25typ (lo=100%)								
	LEAKAGE CURRE	NT[mA]	0.5max (60Hz, Acco	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	V[mV]	20max	20max	48max	60max	96max				
	LOAD REGULATIO	N[mV]	40max	40max	100max	120max	150max				
	DIDDI Elm\/n m1	0 to +50°C *1	80max	80max	120max	120max	120max				
	RIPPLE[mVp-p]	-10 - 0°C ∗1	140max	140max	160max	160max	160max				
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	120max	150max	150max	150max				
OUIFUI	HIPPLE NOISE[IIIVP-P]	-10 - 0℃ *1	160max	160max	180max	180max	180max				
	TEMPERATURE REGULA	TION[mV]	50max	50max	120max	150max	240max				
	DRIFT[mV]	*2	20max	20max	48max	60max	96max				
	START-UP TIME[ms]		100max (ACIN 85V, Io=100%)								
	HOLD-UP TIME[ms	s]	10typ (ACIN 85V, Io=100%) 20typ (ACIN 100V, Io=100%)								
	OUTPUT VOLTAGE ADJUSTMEN	T RANGE[V]									
	OUTPUT VOLTAGE SET	TING[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 10	05% of peak current a	at option -H) and reco	overs automatically				
PROTECTION	OVERVOLTAGE PROT	ECTION	Works over 115% of rating, by zener diode clamping								
	OPERATING INDIC	ATION	Not provided								
OTHERS	REMOTE SENSING	3	Not provided								
	REMOTE ON/OFF		Not provided								
	INPUT-OUTPUT		AC2,000V 1minute,	Cutoff current = 10m/	A, DC500V 50M Ω mi	n (At Room Tempera	ture)				
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)								
	OUTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)								
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +60°C, 20 - 90	0%RH (Non condens	ing) (Refer to DERAT	ING CURVE), 3,000m	n (10,000feet) max				
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75°C, 20 - 90	0%RH (Non condens	ing), 9,000m (30,000f	eet) max					
LIVIIIONIILIVI	VIBRATION		10 - 55Hz, 19.6m/s ²	(2G), 3minutes perio	d, 60minutes each ale	ong X, Y and Z axis					
	IMPACT		196.1m/s ² (20G), 11	ms, once each X, Y a	and Z axis						
SAFETY AND	AGENCY APPROV	ALS	UL60950-1, CSA C2	22.2 No.60950-1 Com	plies with DEN-AN						
REGULATIONS	CONDUCTED NOI	SE	Complies with FCC-								
OTHERS	CASE SIZE/WEIGH	łT	49×17×94mm (W)	KHXD) / 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.



		15—
	PCB t=1.2	2 (Lead)

I/O Connector		Mating Connector.	Terminal
CN1	B3(7.5)B-XH-A	XHP-7	Chain: SXH-001T-P0.6
CN 1 B3(7.0)B-AH-A		ADF-/	Loose: BXH-001T-P0.6
CN2 B2B-XH-A		XHP-2	Chain: SXH-001T-P0.6
CIVZ	DZD-XIII-A	Ai ii -2	Loose: BXH-001T-P0.6

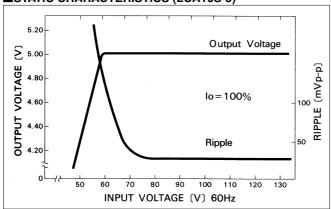
(PIN CONNECTION)

	Pin No.	Input	
	1	AC(L)	
	2		
CN1	3		
CIVI	4	AC(N)	
	5		
	6		
	7	FG	

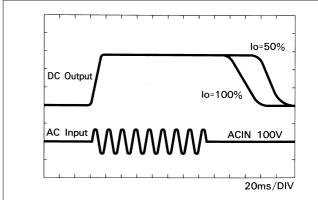
- Pin No. Output CN2
- Weight: 65g or less
 Tolerance: ±1
 Dimensions in mm.
 PCB Material: Glass composite (CEM3)

Performance data

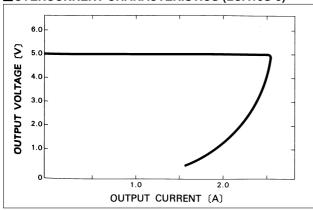
■STATIC CHARACTERISTICS (LCA10S-5)



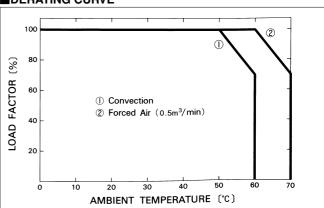




■OVERCURRENT CHARACTERISTICS (LCA10S-5)



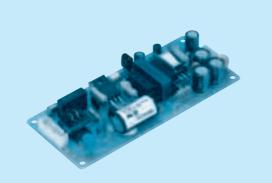
DERATING CURVE



LCA15S

15







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

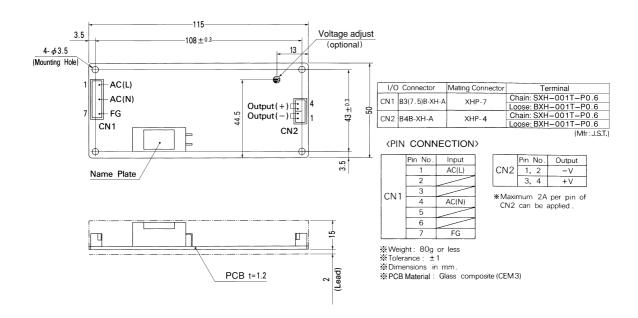
- ①Series name ②100/120V input ③Output wattage ④Single output

- ⑤Output voltage
- ©Optional *3
 C :with Coating
 G :Low leakage current
- Y :with Potentiometer

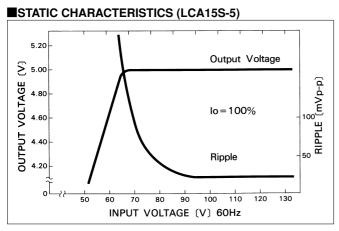
MODEL	LCA15S-5	LCA15S-12	LCA15S-15	LCA15S-24
MAX OUTPUT WATTAGE[W]	15	15.6	15	16.8
DC OUTPUT	5V 3A	12V 1.3A	15V 1A	24V 0.7A

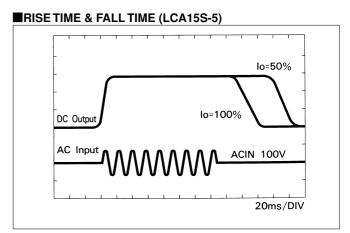
	MODEL		LCA15S-5	LCA15S-12	LCA15S-15	LCA15S-24			
	VOLTAGE[V]		AC85 - 132 1 φ or DC110	0 - 170					
	CURRENT[A]	ACIN 100V	0.4typ (lo=100%)						
INPUT	FREQUENCY[Hz]		47 - 440 or DC						
INFUI	EFFICIENCY[%]		72typ	75typ	75typ	78typ			
	INRUSH CURRENT[A] ACIN 100V		20typ (lo=100%) (At cold start)						
	LEAKAGE CURRENT[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	N[mV]	20max	48max	60max	96max			
	LOAD REGULATION	ON[mV]	40max	100max	120max	150max			
	RIPPLE[mVp-p]	0 to +50°C *1	80max	120max	120max	120max			
	i ==[iiivp-p]	-10 - 0℃ *1	140max	160max	160max	160max			
OUTPUT	RIPPLE NOISE[mVp-p	0 to +50°C *1	120max	150max	150max	150max			
0011 01	TIII T EE NOIGE[IIIVP-P]	-10 - 0℃ *1	160max	180max	180max	180max			
	TEMPERATURE REGULA	TION[mV]	50max	120max	150max	240max			
	DRIFT[mV]	*2	20max	48max	60max	96max			
	START-UP TIME[ms]		100max (ACIN 85V, Io=100%)						
-	HOLD-UP TIME[m	-		%) 20typ (ACIN 100V, lo=1					
-	OUTPUT VOLTAGE ADJUSTMEN		Fixed ("Y"which can be adjusted the output is available as optional:5V -5 to +10% : 12, 15, 24V \pm 10%						
	OUTPUT VOLTAGE SE			11.5 - 12.5	14.4 - 15.6	23.0 - 25.0			
-				g and recovers automatica	•				
PROTECTION	OVERVOLTAGE PROT			g, by zener diode clamping					
OTHERS	OPERATING INDIC								
	REMOTE SENSING	G	Not provided						
	REMOTE ON/OFF		Not provided						
	INPUT-OUTPUT			ff current = 10mA, DC500V		<u> </u>			
ISOLATION			AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)						
	OUTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)						
			-10 to +60℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max						
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	, and a second of the second o						
-	VIBRATION			, 3minutes period, 60minut	es each along X, Y and Z	axis			
0.45557/ 4:15	IMPACT			once each X, Y and Z axis					
NOISE	AGENCY APPROV			No.60950-1 Complies with I	DEN-AN				
	CONDUCTED NOI		Complies with FCC-B, VC						
OTHERS	CASE SIZE/WEIGH		50 × 17 × 115mm (W × H ×	KD) / 80g max					
	COOLING METHO	ספ	Convection						

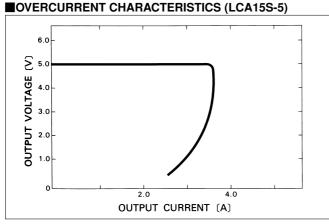
- *1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN: RM101).
 *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C with the input voltage held constant at the rated input/output.
- *3 Please contact us about safety approvals for the model with option.
- Avoid prolonged use under over-load.

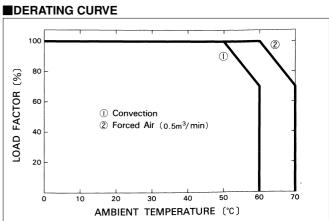


Performance data









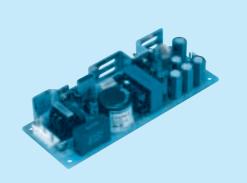
LCA30S

LCA30S-3

30



MODEL



LCA30S-5



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

LCA30S-15 LCA30S-24 LCA30S-36

- ①Series name ②100/120V input
- 3 Output wattage
 4 Single output
- ⑤Output voltage
- ⑥Optional *3
 - C :with Coating
 G :Low leakage current

LCA30S-48

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	_	_	_	_	_	_	

LCA30S-12

INPUT CURRENT[A]	36 0.9 144max 240max 150max 200max	80typ 48 0.7 192max					
FREQUENCY[Hz]	36 0.9 144max 240max 150max	48 0.7 192max					
EFFICIENCY[%] 69typ 75typ 80typ 81typ 82typ INRUSH CURRENT[A] ACIN 100V 25typ (Io=100%) (At cold start) LEAKAGE CURRENT[mA] 0.5max (60Hz, According to UL, CSA and DEN-AN) VOLTAGE[V] 3 5 12 15 24 CURRENT[A] 6 6 2.5 2 1.3 LINE REGULATION[mV] 20max 20max 48max 60max 96max LOAD REGULATION[mV] 40max 40max 100max 120max 150max RIPPLE[mVo.n] 010+500+1 80max 80max 120max 120max 120max 120max	36 0.9 144max 240max 150max	48 0.7 192max					
EFFICIENCY[%] 69typ 75typ 80typ 81typ 82typ	36 0.9 144max 240max 150max	48 0.7 192max					
LEAKAGE CURRENT[mA] 0.5max (60Hz, According to UL, CSA and DEN-AN)	0.9 144max 240max 150max	0.7 192max					
VOLTAGE[V] 3 5 12 15 24	0.9 144max 240max 150max	0.7 192max					
CURRENT[A] 6 6 2.5 2 1.3	0.9 144max 240max 150max	0.7 192max					
LINE REGULATION[mV] 20max 20max 48max 60max 96max 120max 120max 150max 120max 1	144max 240max 150max	192max					
LOAD REGULATION[mV] 40max 40max 100max 120max 150max 120max	240max 150max						
RIPPI F[mVn-n]	150max	l					
RIPPI F[mVn-n]		300max					
160max 16	200max	150max					
		200max					
OUTPUT RIPPLE NOISE[mVp-p] 10 +500 * 1 120 max 150	250max	350max					
180max 180max 180max 180max	300max	400max					
TEMPERATURE REGULATION[mV]50max50max120max150max240max	360max	480max					
DRIFT[mV] *2 20max 20max 48max 60max 96max	144max	192max					
START-UP TIME[ms] 100max (ACIN 85V, lo=100%)	100max (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 Fixed ("Y"which can be adjusted the output is available as optional:5V -5	to +10% : 12, 15, 2	4, 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 PROTECTION Works over 105% of rating and recovers automatically							
PROTECTION OVERVOLTAGE PROTECTION 4.00V min Works over 115% of rating, by zener diode clamping							
CIRCUIT AND OPERATING INDICATION Not provided							
OTHERS REMOTE SENSING Not provided							
REMOTE ON/OFF Not provided	Not provided						
	AC2.000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)						
	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)						
OUTPUT-FG AC500V 1minute, Cutoff current = $100mA$, DC500V $50M\Omega$ min (At Room							
OPERATING TEMP,HUMID.AND ALTITUDE -10 to +60℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE	E), 3,000m (10,0	00feet) max					
ENVIRONMENT STORAGE TEMP.;HUMID.AND ALTITUDE -20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max							
VIBRATION 10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and	nd Z axis						
IMPACT 196.1m/s² (20G), 11ms, once each X, Y and Z axis							

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.

Complies with FCC-B, VCCI-B

 $50 \times 25 \times 132.5$ mm (W×H×D) / 150g max

UL60950-1, CSA C22.2 No.60950-1 Complies with DEN-AN

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

CASE SIZE/WEIGHT

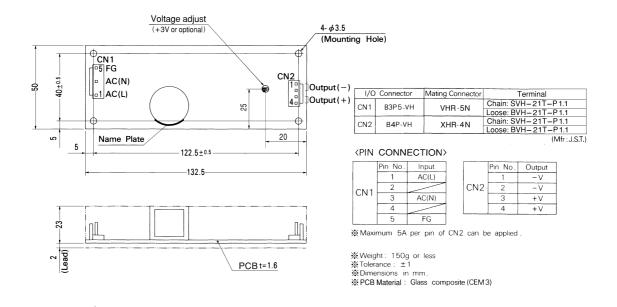
COOLING METHOD

Avoid prolonged use under over-load.

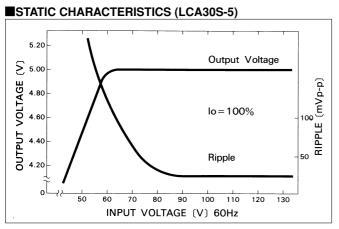
SAFETY AND AGENCY APPROVALS NOISE

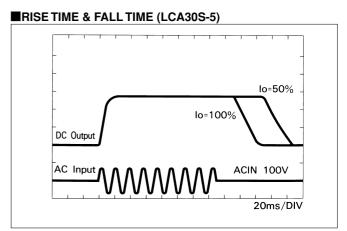
REGULATIONS CONDUCTED NOISE

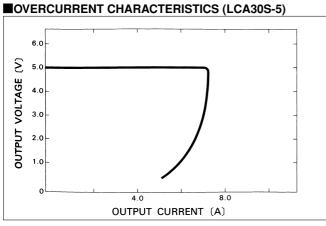
OTHERS

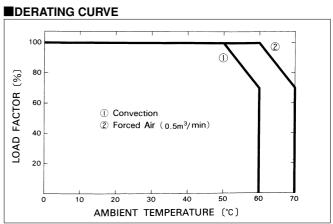


Performance data



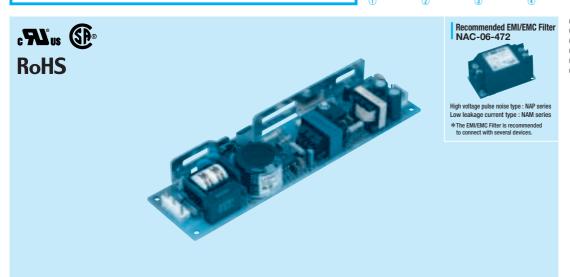






LCA50S

50

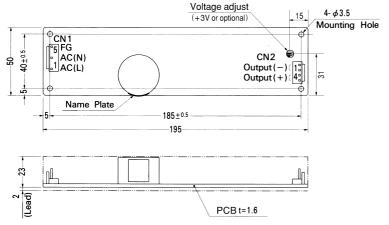


- ①Series name ②100/120V input 3 Output wattage
 4 Single output
- ⑤Output voltage
- Optional *4
 C :with Coating
 G :Low leakage current Y :with Potentiometer

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-48
	VOLTAGE[V]		AC85 - 132 1	φ or DC110 -	170					
	CURRENT[A]	ACIN 100V	1.3typ (lo=10	0%)						
INDUT	FREQUENCY[Hz]		47 - 440 or D	С						
INPUT	EFFICIENCY[%]		71typ	78typ	80typ	81typ	82typ	82typ	82typ	82typ
	INRUSH CURRENT[A] ACIN 100V		30typ (Io=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°C *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°C *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	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 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				•		rent at option -	H) and recover	rs automaticall	У
PROTECTION	OVERVOLTAGE PROTI		4.00 - 5.25V	Works at 115	- 140% of rati	ng				
OTHERS	OPERATING INDICA	TION	Not provided							
OTTLENS	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) AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)							
	OUTPUT-FG									
	OPERATING TEMP.,HUMID.AND		-10 to +60°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max -20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max							
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALIIIUDE				<u> </u>				
	VIBRATION				minutes period		cn along X, Y	and ∠ axis		
CAEETY AND	IMPACT		· ·		ce each X, Y a		ANI			
	AGENCY APPROVAL				60950-1 Com	olies with DEN	-AIN			
HEGULATIONS	CONDUCTED NOISE CASE SIZE/WEIGHT			FCC-B, VCC						
OTHERS				mm (W×H×D	i) / 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.



1/0	Connector	Mating Connector	Terminal		
CN1	B3P5-VH	VHR-5N	Chain: SVH-21T-P1.1		
CIVI	DOI 0-VII	VIIN-SIN	Loose: BVH-21T-P1.1		
CN2	B4P-VH	VHR-4N	Chain: SVH-21T-P1.1		
CIVE	D41 - VII	VIIII	Loose: BVH-21T-P1.1		
			(Mfr:J.S.T.		

(PIN CONNECTION)

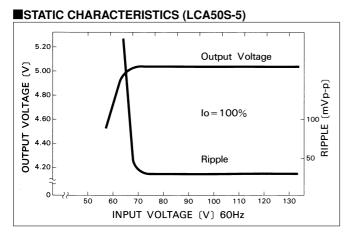
CN1 3 AC(N) CN2		Pin No.	Input		Pin No.	Output
CN1 3 AC(N) CN2		1	AC(L)			
3 AC(N)	CNI	2		CNO	1 • 2	-V
4	CIVI	3	AC(N)	CNZ		
		4			3 · 4	+V
5 FG		5	FG		"	

*Maximum 5A per pin of CN2 can be applied.

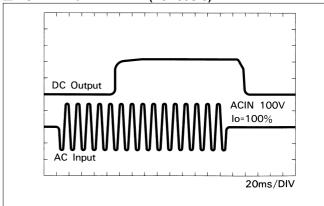
% Weight: 200g or less

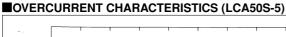
★ Tolerance : ± 1
 ★ Dimensions in mm.
 ★ PCB Material : Glass composite (CEM3)

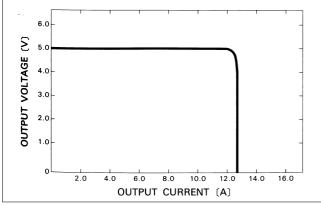
Performance data



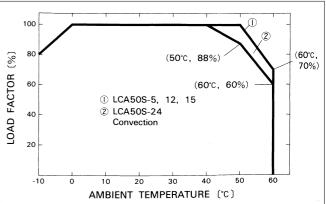






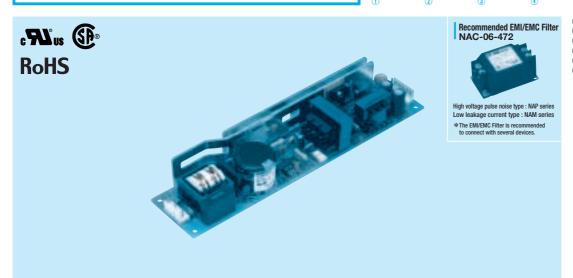


DERATING CURVE



LCA75S

75

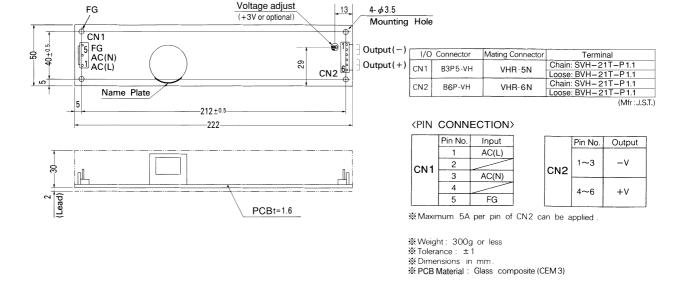


- ①Series name ②100/120V input ③Output wattage ④Single output
- ⑤Output voltage
- Optional *4
 C :with Coating
 G :Low leakage current
- Y :with Potentiometer

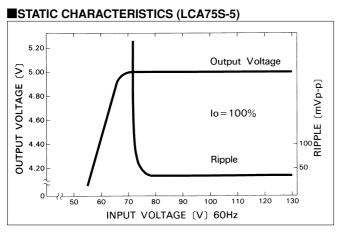
MODEL	LCA75S-3	LCA75S-5	LCA75S-12	LCA75S-15	LCA75S-24	LCA75S-24-H	LCA75S-36	LCA75S-48
MAX OUTPUT WATTAGE[W]	45	75	75.6	75	76.8	76.8	75.6	76.8
DC OUTPUT	3V 15A	5V 15A	12V 6.3A	15V 5A	24V 3.2A	24V 3.2A	36V 2.1A	48V 1.6A

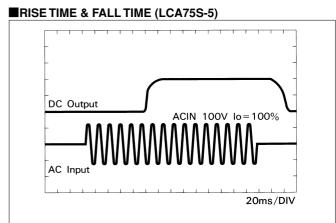
	MODEL		LCA75S-3	LCA75S-5	LCA75S-12	LCA75S-15	LCA75S-24	LCA75S-24-H	LCA75S-36	LCA75S-48		
	VOLTAGE[V]		AC85 - 132 1 ϕ or DC110 - 170									
	CURRENT[A]	ACIN 100V	1.9typ (lo=100%)									
INPUT	FREQUENCY[Hz]		47 - 440 or DC									
INFO	EFFICIENCY[%]		72typ	79typ	81typ	83typ	84typ	84typ	84typ	84typ		
	INRUSH CURRENT[A] ACIN 100V		30typ (lo=100	%) (At cold st	art)							
	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[I	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°C *1	80max	80max	120max	120max	120max	120max	150max	150max		
	niPPLE[iiivp-p]	-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		
OUIPUI	HIPPLE 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 (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 Fixed ("Y"which can be adjusted the output is available as optional: 5, 12, 15, 24, 36, 48V ±10%)									
	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		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℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max									
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max									
ENVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis									
	IMPACT		196.1m/s ² (20	OG), 11ms, one	ce each X, Y a	nd Z axis						
SAFETY AND	AGENCY APPROVAL	LS	UL60950-1, C	SA C22.2 No.	.60950-1 Comp	lies with DEN-	AN					
REGULATIONS	CONDUCTED NOISE	•	Complies with	n FCC-B, VCC	I-B							
OTHERS	CASE SIZE/WEIGHT		50 × 32 × 222	mm (W×H×C	0) / 300g max							
OTHERS	COOLING METHOD		Convection									

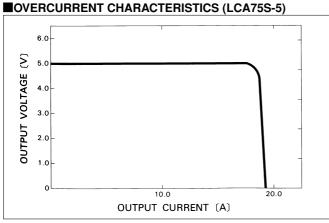
- *1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN: RM101).
 *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C with the input voltage held constant at the rated input/output.
- *3 Peak load for 10 sec. or less is acceptable(The average current has to be less than the rated current).
- *4 Please contact us about safety approvals for the model with option.

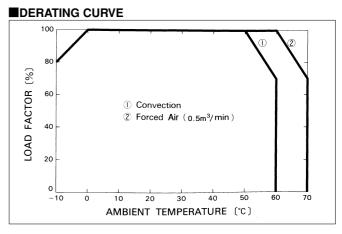


Performance data



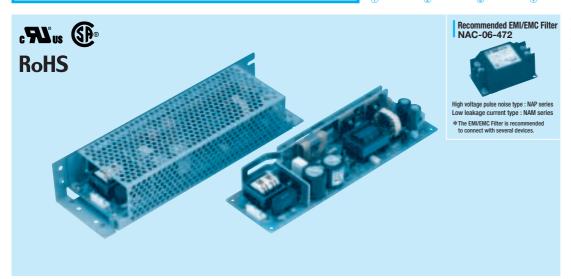






LCA100S

100



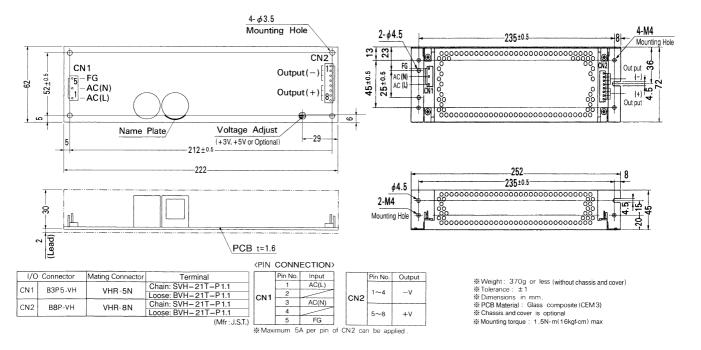
- ①Series name ②100/120V input ③Output wattage ④Single output ⑤Output voltage Optional *4
 C :with Coating
 G :Low leakage current
- S :with Chassis SN:with Chassis & cover Y:with Potentiometer

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-5	LCA100S-12	LCA100S-15	LCA100S-24	LCA100S-24-H	LCA100S-36	LCA100S-48		
	VOLTAGE[V]		AC85 - 132 1 φ or DC110 - 170									
	CURRENT[A]	ACIN 100V	2.5typ (lo=100%)									
INPUT	FREQUENCY[Hz]		47 - 440 or DC									
INFOI	EFFICIENCY[%]		74typ	79typ	83typ	84typ	85typ	85typ	85typ	85typ		
	INRUSH CURRENT[A] ACIN 100V		15typ (lo=100	1%)								
	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[I	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°C *1	80max	80max	120max	120max	120max	120max	150max	150max		
	nieere[iiivp-p]	-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	250max	250max	350max		
OUTPUT	RIPPLE 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	can be adjuste	d the output is a	vailable as optio	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		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 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)									
SOLATION	INPUT-FG		AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ 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 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									
LIVINONWENT	VIBRATION		10 - 55Hz, 19.6m/s² (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			60950-1 Comp	ies with DEN-A	AN					
REGULATIONS	CONDUCTED NOISE		Complies with	FCC-B, VCC	I-B							
OTHERS	CASE SIZE/WEIGHT		62×32×2221	mm (W×H×D)) / 370g max (v	vithout chassis	and cover)					
CITENS	COOLING METHOD		Convection									

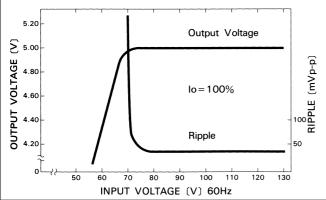
- *1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN: RM101).
 *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C with the input voltage held constant at the rated input/output.
 *3 Peak load for 20 sec. or less is acceptable (The average current has to be less than the rated current).
- Please contact us about safety approvals for the model with option. Derating is required when operated with chassis and cover.

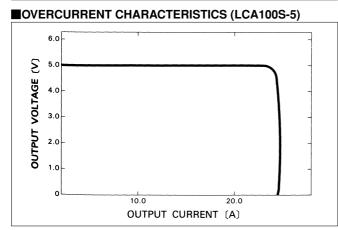


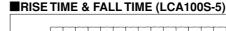


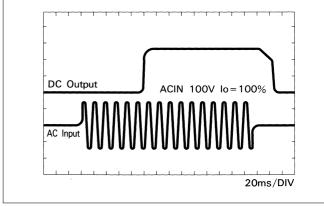
Performance data

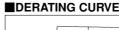
■STATIC CHARACTERISTICS (LCA100S-5)

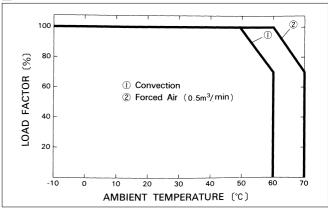






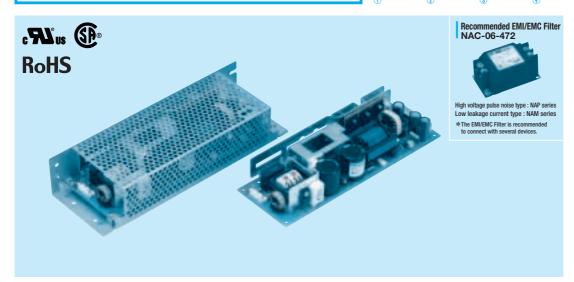






LCA150S

A 150

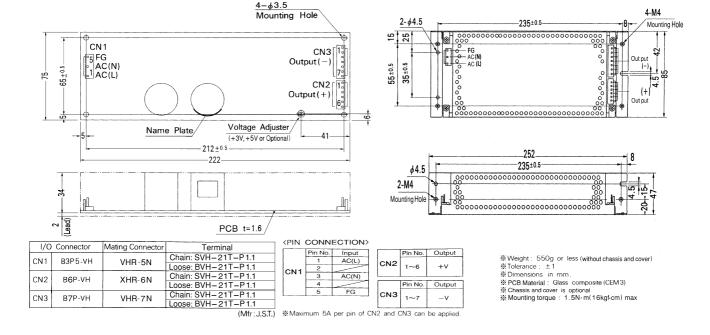


- ①Series name ②100/120V input ③Output wattage ④Single output ⑤Output voltage Optional *4
 C :with Coating
 G :Low leakage current
- S :with Chassis SN:with Chassis & cover Y:with Potentiometer

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

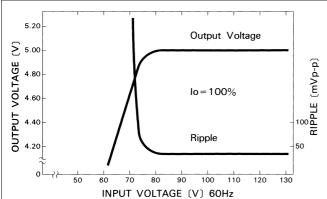
	MODEL		LCA150S-3	LCA150S-5	LCA150S-12	LCA150S-15	LCA150S-24	LCA150S-24-H	LCA150S-36	LCA150S-48			
	VOLTAGE[V]		AC85 - 132 1 ϕ or DC110 - 170										
	CURRENT[A]	ACIN 100V	3.6typ (lo=100%)										
INPUT	FREQUENCY[Hz]		47 - 440 or D	С									
INFUI	EFFICIENCY[%]		72typ	79typ	82typ	83typ	85typ	85typ	85typ	85typ			
	INRUSH CURRENT[A] ACIN 100V		15typ (lo=100	1%)									
	LEAKAGE CURRENT[mA]		0.5max (60Hz	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°C *1	80max	80max	120max	120max	120max	120max	150max	150max			
	nieerc[iiivp-p]	-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	HIPPLE 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 (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 optio	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		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 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		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		3, ()										
FNVIRONMENT!	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 NOISE	AGENCY APPROVAL	LS			60950-1 Comp	ies with DEN-A	AN						
REGULATIONS	CONDUCTED NOISE			FCC-B, VCC									
OTHERS	CASE SIZE/WEIGHT	•	75×36×222	mm (W×H×D)) / 550g max (v	vithout chassis	and cover)						
O.HEIIO	COOLING METHOD		Convection										

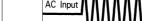
- *1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN: RM101).
 *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C with the input voltage held constant at the rated input/output.
 *3 Peak load for 15 sec. or less is acceptable (The average current has to be less than the rated current).
- Please contact us about safety approvals for the model with option. Derating is required when operated with chassis and cover.



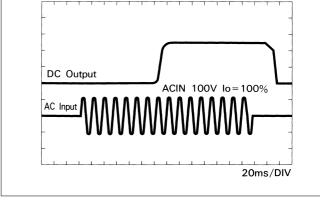
Performance data

■STATIC CHARACTERISTICS (LCA150S-5)

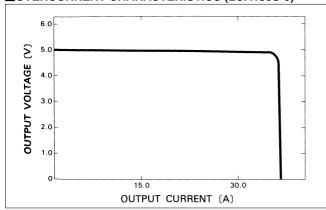




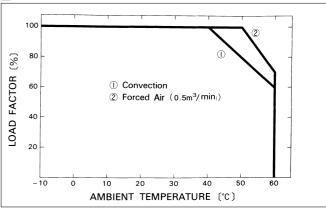
■RISETIME & FALLTIME (LCA150S-5)



■OVERCURRENT CHARACTERISTICS (LCA150S-5)



DERATING CURVE



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cosel:

LCA10S-15-GY LCA150S-36-SNY LCA15S-12-C LCA100S-36-S LCA30S-24-C LCA50S-5-CY LCA75S-3

LCA50S-15-G LCA50S-24-G LCA100S-48-SN LCA100S-12 LCA30S-15-CY LCA150S-24-SNH LCA100S-24-SNH

LCA150S-24-GH LCA75S-15-C LCA150S-36-C LCA30S-3-D3.3 LCA100S-12-SNC LCA150S-12-CG LCA50S-36

LCA30SA-5 LCA15S-24-C LCA50S-24-HY LCA10S-5 LCA100S-24-S LCA30S-12-Y LCA150S-12-S LCA100S-48-Y LCA50S-12 LCA100S-12-Y LCA150S-24-SNY LCA150S-24-HQ LCA75S-5-Y LCA150S-24-CHY LCA30S-12-C LCA10SA-15-C LCA75S-15-Y LCA100S-5-G LCA150S-48-SNY LCA30SA-12-E LCA10S-12-Y LCA75S-12-C LCA30S-24-GY LCA100S-48 LCA50S-5-Q LCA100S-12-G LCA150S-48-C LCA15S-5-Q LCA10S-15-YD15.5 LCA15SA-12 LCA150S-3-D3.3 LCA100S-5-SN LCA10S-5-G LCA150S-5-C LCA50S-12-G LCA30SA-15-E LCA30S-5-C LCA75S-5-CY LCA150S-24-SH LCA150S-15-C LCA10S-15-Y LCA30S-5-Q LCA30S-48-CY LCA15S-12-Q LCA10SA-24-C LCA30S-36 LCA75S-24 LCA100S-36-SNY LCA50S-48 LCA150S-15-SN LCA10S-12-C LCA75S-36-G LCA15SS-24-GY LCA10SA-24-C LCA30S-36 LCA75S-24 LCA100S-36-SNY LCA50S-48 LCA150S-15-SN LCA10S-12-C LCA75S-36-G LCA15SS-24-GY LCA10S-3-SN LCA10S-3-SN LCA10S-3-S-C LCA150S-5-C LCA50S-3-C LCA150S-3-C LCA150S-3