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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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	DC110 - 170			•			
	CURRENT[A]	ACIN 100V	0.3typ (lo=100%)							
INDUT	FREQUENCY[Hz]		47 - 440 or DC							
INPUT	EFFICIENCY[%]		71typ	71typ	75typ	75typ	78typ			
	INRUSH CURRENT[A]	ACIN 100V	25typ (lo=100%)							
	LEAKAGE CURRE	NT[mA]	0.5max (60Hz, Acco	ording to UL, CSA and	I DEN-AN)					
LCA	VOLTAGE[V]		5	5	12	15	24			
	CURRENT[A]		2	2 (Peak 3)	0.9	0.7	0.5			
	LINE REGULATIO	N[mV]	20max	20max	48max	60max	96max			
	LOAD REGULATIO	ON[mV]	40max	40max	100max	120max	150max			
	PIPPI E[m\/n_n]	0 to +50℃ *1	80max	80max	120max	120max	120max			
	пеессішур-рі	-10 - 0℃ *1	140max	140max	160max	160max	160max			
		0 to +50℃ *1	120max	120max	150max	150max	150max			
OULED		l -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[n	າຣ]	100max (ACIN 85V,	lo=100%)						
	HOLD-UP TIME[m	s]	10typ (ACIN 85V, Io	=100%) 20typ (ACIN	100V, lo=100%)					
	OUTPUT VOLTAGE ADJUSTMEN	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		be adjusted the outp	ut is available as option	onal:5V -5 to +10% :	12, 15, 24V ±10%)			
	OUTPUT VOLTAGE SE	TTING[V]	4.9 - 5.3	4.9 - 5.3	11.5 - 12.5	14.4 - 15.6	23.0 - 25.0			
	OVERCURRENT PRO	TECTION	Works over 105% of rating (works over 105% of peak current at option -H) and recovers automatically							
PROTECTIO	OVERVOLTAGE PROT	ECTION	Works over 115% of rating, by zener diode clamping							
CIRCUIT AN	D OPERATING INDIC	CATION	Not provided							
OTHERS	REMOTE SENSIN	G	Not provided							
	REMOTE ON/OFF		Not provided							
	INPUT-OUTPUT		AC2,000V 1minute,	Cutoff current = 10m/	A, DC500V 50M Ω min	n (At Room Temperat	ture)			
ISOLATIO	N INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)							
	OUTPUT-FG		AC500V 1minute, Ci	utoff current = 100mA	, DC500V 50M Ω mir	(At Room Temperate	ure)			
	OPERATING TEMP.,HUMID.AN	d altitude	-10 to +60℃, 20 - 90	0%RH (Non condensi	ng) (Refer to DERATI	NG CURVE), 3,000m	1 (10,000feet) max			
ENVIRONMEN	T STORAGE TEMP.,HUMID.AND) ALTITUDE	-20 to +75°C, 20 - 90	0%RH (Non condensi	ng), 9,000m (30,000f	eet) max				
	VIBRATION		10 - 55Hz, 19.6m/s ²	(2G), 3minutes perio	d, 60minutes each ald	ong X, Y and Z axis				
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis							
SAFETY AN NOISE		ALS	UL60950-1, CSA C2	22.2 No.60950-1 Com	plies with DEN-AN					
REGULATION	S CONDUCTED NO	SE	Complies with FCC-	B, VCCI-B						
OTHERS	CASE SIZE/WEIG	нт	49×17×94mm (W>	×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.



Output

-V

+ V





I/C	Connector	Mating Connector.	Terminal
CN1	B3/7 518-XH-A	YHP 7	Chain: SXH-001T-P0.6
CN 1 B3(7.0/B-XH-A	7111 -7	Loose: BXH-001T-P0.6	
		YHP.2	Chain: SXH-001T-P0.6
CINZ	DZD-AIT-A	ATT -2	Loose: BXH-001T-P0.6
			(Mfr : J.S.T.

<PIN CONNECTION> Pin No. Input

2

3

456

CN1

Input			Pin No
AC(L)	0	CN2	1
			2
AC(NI)			

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	

	MODEL		LCA15S-5	LCA15S-12	LCA15S-15	LCA15S-24				
	VOLTAGE[V]		AC85 - 132 1 φ or DC110) - 170						
	CURRENT[A]	ACIN 100V	0.4typ (lo=100%)							
NUDUT	FREQUENCY[Hz]		47 - 440 or DC							
INPUT	EFFICIENCY[%]		72typ	75typ	75typ	78typ				
	INRUSH CURRENT[A]	ACIN 100V	20typ (lo=100%) (At cold start)							
	LEAKAGE CURRE	NT[mA]	0.5max (60Hz, According to UL, CSA and DEN-AN)							
.CA	VOLTAGE[V]		5	12	15	24				
	CURRENT[A]		3	1.3	1	0.7				
	LINE REGULATIO	N[mV]	20max	48max	60max	96max				
	LOAD REGULATIO	ON[mV]	40max	100max	120max	150max				
		0 to +50℃ *1	80max	120max	120max	120max				
	RIPPLE[mvp-p]	-10 - 0°C *1	140max	160max	160max	160max				
OUTPUT		0 to +50℃ * 1	120max	150max	150max	150max				
OUIPUI		-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	ıs]	100max (ACIN 85V, lo=10	00%)						
	HOLD-UP TIME[m	s]	10typ (ACIN 85V, Io=100	%) 20typ (ACIN 100V, lo=1	00%)					
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		Fixed ("Y"which can be ad	djusted the output is availa	ble as optional:5V -5 to +1	0% : 12, 15, 24V ±10%)				
	OUTPUT VOLTAGE SET	rting[v]	4.9 - 5.3	11.5 - 12.5	14.4 - 15.6	23.0 - 25.0				
	OVERCURRENT PROT	TECTION	Works over 105% of rating	g and recovers automatical	ly					
PROTECTION	OVERVOLTAGE PROT	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, Cutof	f current = 10mA, DC500V	$50M\Omega$ min (At Room Tem	perature)				
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)							
	OUTPUT-FG		AC500V 1 minute, Cutoff of	current = 100mA, DC500V	50M Ω min (At Room Tem	perature)				
	OPERATING TEMP., HUMID.AND) ALTITUDE	-10 to +60℃, 20 - 90%RH	I (Non condensing) (Refer	to DERATING CURVE), 3,	000m (10,000feet) max				
	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75℃, 20 - 90%RH	I (Non condensing), 9,000	m (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, o	nce each X, Y and Z axis						
SAFETY AND	AGENCY APPROV	ALS	UL60950-1, CSA C22.2 N	Io.60950-1 Complies with [DEN-AN					
REGULATIONS	CONDUCTED NO	SE	Complies with FCC-B, VC	CI-B						
OTHERS	CASE SIZE/WEIGH	IT	50×17×115mm (W×H>	(D) / 80g 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.







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 - 1	170						
	CURRENT[A]	ACIN 100V	0.7typ (lo=100)%)							
	FREQUENCY[Hz]		47 - 440 or D	C							
INPUT	EFFICIENCY[%]		69typ	75typ	80typ	81typ	82typ	80typ	80typ		
	INRUSH CURRENT[A]	ACIN 100V	25typ (lo=100%) (At cold start)								
	LEAKAGE CURREN	NT[mA]	0.5max (60Hz, According to UL, CSA and DEN-AN)								
A	VOLTAGE[V]		3	5	12	15	24	36	48		
	CURRENT[A]		6	6	2.5	2	1.3	0.9	0.7		
	LINE REGULATION	LINE REGULATION[mV]		20max	48max	60max	96max	144max	192max		
	LOAD REGULATIO	N[mV]	40max	40max	100max	120max	150max	240max	300max		
OUTPUT		0 to +50℃ *1	80max	80max	120max	120max	120max	150max	150max		
	пеессіштр-рі	-10 - 0°C *1	140max	140max	160max	160max	160max	200max	200max		
OUTPUT	RIPPI E NOISE[m\/n-n]	0 to +50℃ *1	120max	120max	150max	150max	150max	250max	350max		
		-10 - 0℃ *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		
	START-UP TIME[m	s]	100max (ACIN	1 85V, lo=100%	<i>с</i>)						
	HOLD-UP TIME[ms	s]	10typ (ACIN 8	5V, lo=100%) 2	20typ (ACIN 10	0V, lo=100%)					
	OUTPUT VOLTAGE ADJUSTMEN	T RANGE[V]	2.85 - 3.6	Fixed ("Y"which o	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	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)	Not provided								
	REMOTE ON/OFF		Not provided								
	INPUT-OUTPUT		AC2,000V 1m	inute, Cutoff cu	rrent = 10mA,	DC500V 50MΩ	min (At Room	Temperature)			
ISOLATION	INPUT-FG		AC2,000V 1m	inute, Cutoff cu	rrent = 10mA,	DC500V 50MΩ	min (At Room	Temperature)			
	OUTPUT-FG		AC500V 1min	ute, Cutoff curr	ent = 100mA, E	DC500V 50MΩ	min (At Room	Temperature)			
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +60℃,	20 - 90%RH (N	Ion condensing) (Refer to DEF	RATING CURVE	E), 3,000m (10,0	000feet) max		
	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75℃,	20 - 90%RH (N	lon condensing), 9,000m (30,0	00feet) max				
	VIBRATION		10 - 55Hz, 19	.6m/s² (2G), 3n	ninutes period,	60minutes each	n along X, Y an	d Z axis			
	IMPACT		196.1m/s ² (20	G), 11ms, once	e each X, Y and	d Z axis					
SAFETY AND	AGENCY APPROV	ALS	UL60950-1, C	SA C22.2 No.6	0950-1 Compli	es with DEN-AN	N				
REGULATIONS	CONDUCTED NOIS	SE	Complies with	FCC-B, VCCI-	В						
OTHERS	CASE SIZE/WEIGH	IT	50×25×132.	5mm (W×H×I	D) / 150g max						
STILIIS	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 (LCA30S-5)



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-48	
	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	
	DIDDI E[m\/n n]	0 to +50℃ *1	80max	80max	120max	120max	120max	120max	150max	150max	
	RIPPLE[mvp-p]	-10 - 0°C *1	140max	140max	160max	160max	160max	160max	200max	200max	
		0 to +50℃ *1	120max	120max	150max	150max	150max	150max	250max	350max	
OUTPUT	RIPPLE NOISE[mvp-p]	-10 - 0°C *1	160max	160max	180max	180max	180max	180max	300max	400max	
		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	35V, lo=100%)	20typ (ACIN 1	00V, lo=100%)					
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.6	Fixed ("Y"whi	ch can be adju	sted the outpu	t is available as	s optional: 5, 1	2, 15, 24, 36, 4	48V ±10%)	
	OUTPUT VOLTAGE SET	TING[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 PROT	ECTION	Works over 105% of rating (works over 105% of peak current at option -H) and recovers automatically								
PROTECTION	OVERVOLTAGE PROTE	ECTION	4.00 - 5.25V Works at 115 - 140% of rating								
CIRCUIT AND	OPERATING INDICA	TION	Not provided								
UTHENS	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 1m	inute, Cutoff c	urrent = 10mA	, DC500V 50M	Ω min (At Roc	m Temperature	e)		
	OUTPUT-FG		AC500V 1min	ute, Cutoff cur	rent = $100mA$,	DC500V 50M	<u>n min (At Roo</u>	m Temperature)		
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +60℃,	20 - 90%RH (Non condensir	g) (Refer to DE	ERATING CUR	VE), 3,000m (1	0,000feet) ma:	x	
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75℃,	20 - 90%RH (Non condensir	ig), 9,000m (30	,000feet) max				
	VIBRATION		10 - 55Hz, 19	0.6m/s ² (2G), 3	minutes period	, 60minutes ea	ch along X, Y	and Z axis			
			196.1m/s ² (20)G), 11ms, onc	ce each X, Y a	nd Z axis					
NOISE		-5	UL60950-1, C	SA C22.2 No.	60950-1 Com	plies with DEN	AN				
REGULATIONS	CONDUCTED NOISE	:	Complies with		I-B						
OTHERS	CASE SIZE/WEIGHT		50 X 25 X 195	mm (WXHXD) / 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	1.9typ (lo=10	0%)							
	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	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	
	DIDDI E(m)/n n1	0 to +50℃ *1	80max	80max	120max	120max	120max	120max	150max	150max	
		-10 - 0°C *1	140max	140max	160max	160max	160max	160max	200max	200max	
		0 to +50℃ *1	120max	120max	150max	150max	150max	150max	250max	350max	
OUTPUT	RIPPLE NOISE[mvp-p]	-10 - 0°C *1	160max	160max	180max	180max	180max	180max	300max	400max	
		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	
5	START-UP TIME[ms]		200max (ACII	N 85V, lo=100	%)						
	HOLD-UP TIME[ms]		10typ (ACIN 8	35V, lo=100%)	20typ (ACIN 1	00V, lo=100%)				
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.6	Fixed ("Y"whi	ich can be adju	sted the outpu	t is available as	s optional: 5, 12	2, 15, 24, 36, 4	48V ±10%)	
	OUTPUT VOLTAGE SET	TING[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 PROT	ECTION	Works over 105% of rating (works over 105% of peak current at option -H) and recovers automatically								
PROTECTION	OVERVOLTAGE PROTE	CTION	4.00 - 5.25V Works at 115 - 140% of rating								
CIRCUIT AND	OPERATING INDICAT	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 1m	ninute, Cutoff c	urrent = 10mA	DC500V 50M	Ω min (At Roo	m Temperature	e)		
	OUTPUT-FG		AC500V 1mir	ute, Cutoff cur	rrent = 100mA,	DC500V 50M	Ω min (At Rooi	m Temperature)		
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +60℃,	20 - 90%RH (Non condensin	ig) (Refer to DI	ERATING CUR	VE), 3,000m (1	0,000feet) ma:	x	
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75℃,	20 - 90%RH (Non condensin	ıg), 9,000m (30	,000feet) max				
ENVIRONMENT	VIBRATION		10 - 55Hz, 19	.6m/s² (2G), 3	minutes period	, 60minutes ea	ch along X, Y	and Z axis			
	IMPACT		196.1m/s ² (20)G), 11ms, onc	ce each X, Y a	nd Z axis					
SAFETY AND	AGENCY APPROVAL	.s	UL60950-1, C	SA C22.2 No.	60950-1 Comp	lies with DEN-	AN				
REGULATIONS	CONDUCTED NOISE		Complies with	FCC-B, VCC	I-B						
OTHERS	CASE SIZE/WEIGHT		50×32×222	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-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%)									
	FREQUENCY[Hz]		47 - 440 or DC									
AINFOI	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		
	PIDDI E[m\/n n]	0 to +50℃ *1	80max	80max	120max	120max	120max	120max	150max	150max		
	пеессішур-рі	-10 - 0°C *1	140max	140max	160max	160max	160max	160max	200max	200max		
		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, 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 adjusted	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 INDICATION		Not provided									
OTHERS	REMOTE SENSING		Not provided									
	MODEL LCATOUS-3 L VOLTAGE[V] AC85 - 132 1 ¢ CURRENT[A] ACIN 100V 2.5typ (lo=100%) FREQUENCY[Hz] 47 - 440 or DC EFFICIENCY[%] 74typ 7 INRUSH CURRENT[A] ACIN 100V 15typ (lo=100%) LEAKAGE CURRENT[MA] 0.5max (60Hz, A VOLTAGE[V] 3 5 CURRENT[A] *3 20 LINE REGULATION[mV] 20max 21 LOAD REGULATION[mV] 40max 4 RIPPLE[mVp-p] 10 • 490C * 80max 8 IOUTPUT RIPPLE NOISE[mVp-p] 0 to 490C * 80max 10 TEMPERATURE REGULATION[mV] 40 max 10 10 10 10 OUTPUT RIPPLE NOISE[mVp-p] 10 to 50C * 10 to 00 * 10 10 TEMPERATURE REGULATION[mV] *2 20max 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20											
	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 APPROVALS		UL60950-1, C	SA C22.2 No.	60950-1 Comp	lies with DEN-A	AN .					
REGULATIONS	CONDUCTED NOISE		Complies with	FCC-B, VCCI	-В							
OTHERS	CASE SIZE/WEIGHT		62×32×222r	mm (W×H×D) / 370g max (v	without chassis	and cover)					
UITERS	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-5	LCA150S-12	LCA150S-15	LCA150S-24	LCA150S-24-H	LCA150S-36	LCA150S-48		
	VOLTAGE[V]		AC85 - 132 1 ¢ or DC110 - 170									
	CURRENT[A]	ACIN 100V	3.6typ (lo=100%)									
	FREQUENCY[Hz]		47 - 440 or DC									
AINPUT	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		
	RIPPI FimVn-n1	0 to +50℃ *1	80max	80max	120max	120max	120max	120max	150max	150max		
	IIIII EE[IIIVP-P]	-10 - 0℃ *1	140max	140max	160max	160max	160max	160max	200max	200max		
	RIPPLE NOISE[m\/n_n]	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	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 optio	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 - 50.0		
	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									
UTHENS	REMOTE SENSING		Not provided									
	REMOTE ON/OFF											
			AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Hoom Temperature)									
ISOLATION	INPUT-FG		AU2,000V Tminute, Cutoff current = 10mA, DC500V 50M Ω min (At Hoom Temperature)									
	OUTPUT-FG		ACOUV IMINUTE, CUTOTI CUTTENT = 100MA, DC500V 50M Ω min (At Hoom Temperature)									
	OPERATING TEMP., HUMID. AND ALTITUDE		1-10 to +60°C, 20 - 90% KH (Non condensing) (Reter to DERALING CURVE), 3,000m (10,000feet) max									
ENVIRONMENT	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +/5°C, 20 - 90%HH (Non condensing), 9,000m (30,000teet) max									
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis									
SAFETY AND		<u> </u>	190. Im/s' (200), 11ms, once each X, Y and Z axis									
NOISE			Complian with	5A UZZ.Z NO.		ies with DEN-A	AIN					
REGULATIONS			75 X 26 X 200		-D		and cover)					
OTHERS	CASE SIZE/WEIGHT		75 X 36 X 2221) / 550g max (without chassis	and cover)					
	COOLING METHOD		Unvection									

*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)



