

AKL10011-xx



Features :

- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- NEC class 2 / LPS compliant (12V,24V,48V only)
- LED indicator for power on
- DC OK relay contact
- No load power consumption<0.75W
- 100% full load burn-in test

SPECIFICATION

AGE JRRENT FRANGE OUSE (max.) Note.2 OUSE (max.) Note.2 OUSE (max.) Note.3 OULATION GULATION GULATION ISE TIME Note.5 TIME (Typ.) RANGE CY (Typ.) ENT (Typ.) CURRENT (Typ.) CURRENT (Typ.) CURRENT (Typ.) CURRENT AD	5 ~ 6V ±2.0% ±1.0% ±1.0% 500ms, 30ms/230VAC 50ms/230VAC 20ms/ 85 ~ 264VAC 120 ~ 3 47 ~ 63Hz 78% 1.1A/115VAC 0.7A/22 COLD START 30A/115VAC <1mA / 240VAC 105 ~ 150% rated output p Protection type : Constant currer 6.25 ~ 7.25V Protection type : Shut dow Relay contact rating(max.)	C 60A/230VAC cower ent limiting, recovers automatical 15.6 ~ 18V rn o/p voltage, re-power on	88%	AKL10011-04 48V 0.83A 0~0.83A 39.8W 200mVp-p 48~56V ±1.0% ±1.0% ±1.0% s8%			
JRRENT FRANGE OWER OISE (max.) Note.2 ADJ. RANGE OLERANCE Note.3 GULATION GULATION ISE TIME Note.5 TIME (Typ.) RANGE NCY RANGE CY (Typ.) ENT (Typ.) CURRENT (Typ.) CURRENT (Typ.) CURRENT AD LTAGE GNAL	6A 0 ~ 6A 30W 80mV p-p 5 ~ 6V ±2.0% ±1.0% ±1.0% 500ms, 30ms/230VAC 50ms/230VAC 20ms/ 85 ~ 264VAC 120 ~ 3 47 ~ 63Hz 78% 1.1A/115VAC 0.7A/2 COLD START 30A/115VAC <1mA / 240VAC 105 ~ 150% rated output p Protection type : Constant curre 6.25 ~ 7.25V Protection type : Shut dow Relay contact rating(max.)	3.33A 0 ~ 3.33A 40W 120mVp-p 12 ~ 15V ±1.0% ±1.0% ±1.0% 500ms, 30ms/115VAC at (115VAC at full load 370VDC 86% 30VAC C 60A/230VAC bower ant limiting, recovers automatical 15.6 ~ 18V yn o/p voltage, re-power on	1.7A 0 ~ 1.7A 40.8W 150mVp-p 24 ~ 30V ±1.0% ±1.0% ±1.0% standard 88% 88% Ily after fault condit 31.2 ~ 36V	0.83A 0~0.83A 39.8W 200mVp-p 48~56V ±1.0% ±1.0% ±1.0% 88%			
T RANGE OWER OISE (max.) Note.2 ADJ. RANGE OLERANCE Note.3 GULATION GULATION ISE TIME Note.5 TIME (Typ.) RANGE NCY RANGE CY (Typ.) ENT (Typ.) CURRENT (Typ.) CURRENT (Typ.) CURRENT (Typ.) CURRENT (Typ.) CURRENT AD	0 ~ 6A 30W 80mVp-p 5 ~ 6V ±2.0% ±1.0% 500ms, 30ms/230VAC 50ms/230VAC 20ms/ 85 ~ 264VAC 120 ~ 3 47 ~ 63Hz 78% 1.1A/115VAC 0.7A/2 COLD START 30A/115VAC <1mA / 240VAC 105 ~ 150% rated output p Protection type : Constant curre 6.25 ~ 7.25V Protection type : Shut dow Relay contact rating(max.)	0 ~ 3.33A 40W 120mVp-p 12 ~ 15V ±1.0% ±1.0% ±1.0% 500ms, 30ms/115VAC at /115VAC at full load 870VDC 86% 30VAC C 60A/230VAC c 60A/230VAC bower ent limiting, recovers automatical 15.6 ~ 18V // n o/p voltage, re-power on	0 ~ 1.7A 40.8W 150mVp-p 24 ~ 30V ±1.0% ±1.0% ±1.0% full load 88% 88%	0 ~ 0.83A 39.8W 200mVp-p 48 ~ 56V ±1.0% ±1.0% ±1.0% 88%			
DWER OISE (max.) Note.2 ADJ. RANGE OLERANCE Note.3 SULATION GULATION ISE TIME Note.5 TIME (Typ.) RANGE NCY RANGE CY (Typ.) ENT (Typ.) CURRENT (Typ.) CURRENT (Typ.) CURRENT (Typ.) CURRENT AD	30W 80mVp-p 5 ~ 6V ±2.0% ±1.0% 500ms, 30ms/230VAC 50ms/230VAC 20ms/ 85 ~ 264VAC 120 ~ 3 47 ~ 63Hz 78% 1.1A/115VAC 0.7A/2 COLD START 30A/115VAC <1mA / 240VAC 105 ~ 150% rated output p Protection type : Constant curre 6.25 ~ 7.25V Protection type : Shut dow Relay contact rating(max,	40W 120mVp-p 12 ~ 15V ±1.0% ±1.0% ±1.0% 500ms, 30ms/115VAC at (115VAC at full load 370VDC 86% 30VAC C 60A/230VAC c 60A/230VAC c 60A/230VAC	40.8W 150mVp-p 24 ~ 30V ±1.0% ±1.0% full load 88% 88% 88%	39.8W 200mVp-p 48 ~ 56V ±1.0% ±1.0% ±1.0% 88% 88%			
OISE (max.) Note.2 ADJ. RANGE OLERANCE Note.3 SULATION GULATION ISE TIME Note.5 TIME (Typ.) RANGE NCY RANGE CY (Typ.) ENT (Typ.) CURRENT (Typ.) CURRENT (Typ.) CURRENT AD LTAGE GNAL	80mVp-p 5 ~ 6V ±2.0% ±1.0% 500ms, 30ms/230VAC 50ms/230VAC 20ms/ 85 ~ 264VAC 120 ~ 3 47 ~ 63Hz 78% 1.1A/115VAC 0.7A/2 COLD START 30A/115VAC <1mA / 240VAC 105 ~ 150% rated output p Protection type : Constant curre 6.25 ~ 7.25V Protection type : Shut dow Relay contact rating(max.)	120mVp-p 12 ~ 15V ±1.0% ±1.0% ±1.0% 500ms, 30ms/115VAC at full load 370VDC 86% 30VAC C 60A/230VAC cower ant limiting, recovers automatical 15.6 ~ 18V vn o/p voltage, re-power on	150mVp-p 24 ~ 30V ±1.0% ±1.0% ±1.0% ifull load 88% Ily after fault condit 31.2 ~ 36V	200mVp-p 48 ~ 56V ±1.0% ±1.0% ±1.0% 88%			
ADJ. RANGE OLERANCE Note.3 GULATION GULATION ISE TIME Note.5 TIME (Typ.) RANGE NCY RANGE CY (Typ.) ENT (Typ.) CURRENT (Typ.) CURRENT (Typ.) CURRENT (Typ.) CURRENT AD	5 ~ 6V ±2.0% ±1.0% ±1.0% 500ms, 30ms/230VAC 50ms/230VAC 20ms/ 85 ~ 264VAC 120 ~ 3 47 ~ 63Hz 78% 1.1A/115VAC 0.7A/22 COLD START 30A/115VAC <1mA / 240VAC 105 ~ 150% rated output p Protection type : Constant currer 6.25 ~ 7.25V Protection type : Shut dow Relay contact rating(max.)	12 ~ 15V ±1.0% ±1.0% ±1.0% 500ms, 30ms/115VAC at /115VAC at full load 370VDC 86% 30VAC C 60A/230VAC bower ent limiting, recovers automatical 15.6 ~ 18V /n o/p voltage, re-power on	24 ~ 30V ±1.0% ±1.0% ±1.0% full load 88% 88% 88%	48 ~ 56V ±1.0% ±1.0% ±1.0% 88%			
OLERANCE Note.3 GULATION GULATION ISE TIME Note.5 TIME (Typ.) RANGE NCY RANGE CY (Typ.) ENT (Typ.) CURRENT (Typ.) CURRENT (Typ.) CURRENT (Typ.) CURRENT AD	±2.0% ±1.0% ±1.0% 500ms, 30ms/230VAC 50ms/230VAC 20ms/230VAC 20ms/230VAC 20ms/230VAC 20ms/230VAC 20ms/230VAC 20ms/230VAC 20ms/230VAC 20ms/230VAC 20ms/230VAC 120 ~ 3 47 ~ 63Hz 78% 1.1A/115VAC 0.7A/2: COLD START 30A/115VAC <105 ~ 150% rated output p	±1.0% ±1.0% ±1.0% ±1.0% 500ms, 30ms/115VAC at //15VAC at full load 870VDC 86% 30VAC 60A/230VAC cower ent limiting, recovers automatical 15.6 ~ 18V // n o/p voltage, re-power on	±1.0% ±1.0% ±1.0% full load 88% 88%	±1.0% ±1.0% ±1.0% 88%			
ULATION GULATION ISE TIME Note.5 TIME (Typ.) RANGE ICY RANGE CY (Typ.) ENT (Typ.) CURRENT (Typ.) CURRENT AD	±1.0% ±1.0% 500ms, 30ms/230VAC 50ms/230VAC 20ms/ 85 ~ 264VAC 120 ~ 3 47 ~ 63Hz 78% 1.1A/115VAC 0.7A/23 COLD START 30A/115VAC <1mA / 240VAC 105 ~ 150% rated output p Protection type : Constant curre 6.25 ~ 7.25V Protection type : Shut dow Relay contact rating(max.)	±1.0% ±1.0% 500ms, 30ms/115VAC at /115VAC at full load 870VDC 86% 30VAC 60A/230VAC 60A/230VAC 00wer ent limiting, recovers automatical 15.6 ~ 18V // n o/p voltage, re-power on	±1.0% ±1.0% full load 88% Ily after fault condit 31.2 ~ 36V	±1.0% ±1.0% 88%			
GULATION ISE TIME Note.5 TIME (Typ.) RANGE ICY RANGE CY (Typ.) ENT (Typ.) CURRENT (Typ.) CURRENT AD	±1.0% 500ms, 30ms/230VAC 50ms/230VAC 20ms/ 85 ~ 264VAC 120 ~ 3 47 ~ 63Hz 78% 1.1A/115VAC 0.7A/23 COLD START 30A/115VAC <1mA / 240VAC 105 ~ 150% rated output p Protection type : Constant currer 6.25 ~ 7.25V Protection type : Shut dow Relay contact rating(max.)	±1.0% 500ms, 30ms/115VAC at (115VAC at full load 870VDC 86% 30VAC C 60A/230VAC bower ent limiting, recovers automatical 15.6 ~ 18V yn o/p voltage, re-power on	tul load 88%	±1.0%			
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TIME (Typ.) RANGE NCY RANGE CY (Typ.) ENT (Typ.) CURRENT (Typ.) E CURRENT AD LTAGE GNAL	50ms/230VAC 20ms/ 85 ~ 264VAC 120 ~ 3 47 ~ 63Hz 78% 1.1A/115VAC 0.7A/23 COLD START 30A/115VAC <1mA / 240VAC	/115VAC at full load 870VDC 86% 30VAC C 60A/230VAC ent limiting, recovers automatical 15.6 ~ 18V /n o/p voltage, re-power on	88%	ion is removed			
RANGE NCY RANGE CY (Typ.) ENT (Typ.) CURRENT (Typ.) E CURRENT AD LTAGE GNAL	85 ~ 264VAC 120 ~ 3 47 ~ 63Hz 78% 1.1A/115VAC 0.7A/23 COLD START 30A/115VAC <1mA / 240VAC	370VDC 86% 30VAC C 60A/230VAC eower ent limiting, recovers automatical 15.6 ~ 18V rn o/p voltage, re-power on	lly after fault condit 31.2 ~ 36V	ion is removed			
NCY RANGE CY (Typ.) ENT (Typ.) CURRENT (Typ.) E CURRENT AD LTAGE GNAL	47 ~ 63Hz 78% 1.1A/115VAC 0.7A/2 COLD START 30A/115VAC <1mA / 240VAC 105 ~ 150% rated output p Protection type : Constant curre 6.25 ~ 7.25V Protection type : Shut dow Relay contact rating(max.)	86% 30VAC C 60A/230VAC ent limiting, recovers automatical 15.6 ~ 18V rn o/p voltage, re-power on	lly after fault condit 31.2 ~ 36V	ion is removed			
CY (Typ.) ENT (Typ.) CURRENT (Typ.) E CURRENT AD LTAGE GNAL	78% 1.1A/115VAC 0.7A/2 COLD START 30A/115VAC <1mA / 240VAC 105 ~ 150% rated output p Protection type : Constant curre 6.25 ~ 7.25V Protection type : Shut dow Relay contact rating(max.)	30VAC C 60A/230VAC power ant limiting, recovers automatical 15.6 ~ 18V rn o/p voltage, re-power on	lly after fault condit 31.2 ~ 36V	ion is removed			
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ENT (Typ.) CURRENT (Typ.) E CURRENT AD LTAGE GNAL	COLD START 30A/115VAC <1mA / 240VAC 105 ~ 150% rated output p Protection type : Constant curre 6.25 ~ 7.25V Protection type : Shut dow Relay contact rating(max.)	30VAC C 60A/230VAC power ant limiting, recovers automatical 15.6 ~ 18V rn o/p voltage, re-power on	lly after fault condit 31.2 ~ 36V	ion is removed			
CURRENT (Typ.) E CURRENT AD LTAGE GNAL	<1mA / 240VAC 105 ~ 150% rated output p Protection type : Constant curre 6.25 ~ 7.25V Protection type : Shut dow Relay contact rating(max.)	oower ent limiting, recovers automatica 15.6 ~ 18V rn o/p voltage, re-power on	31.2 ~ 36V				
E CURRENT AD LTAGE GNAL	<1mA / 240VAC 105 ~ 150% rated output p Protection type : Constant curre 6.25 ~ 7.25V Protection type : Shut dow Relay contact rating(max.)	nt limiting, recovers automatica 15.6 ~ 18V /n o/p voltage, re-power on	31.2 ~ 36V				
LTAGE	Protection type : Constant curre 6.25 ~ 7.25V Protection type : Shut dow Relay contact rating(max.)	nt limiting, recovers automatica 15.6 ~ 18V /n o/p voltage, re-power on	31.2 ~ 36V				
LTAGE	Protection type : Constant curre 6.25 ~ 7.25V Protection type : Shut dow Relay contact rating(max.)	nt limiting, recovers automatica 15.6 ~ 18V /n o/p voltage, re-power on	31.2 ~ 36V				
GNAL	6.25 ~ 7.25V Protection type : Shut dow Relay contact rating(max.)	15.6 ~ 18V /n o/p voltage, re-power on	31.2 ~ 36V				
GNAL	Relay contact rating(max.)	/n o/p voltage, re-power on	to recover				
-	Relay contact rating(max.)						
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	-20 ~ +70 C (Relef to output loa	ad derating curve)	$-20 \sim +70^{\circ}$ (Refer to output load derating curve)				
G HUMIDITY	20 ~ 90% RH non-condensing						
,	±0.03%/C (0 ~ 50°C)						
	Component :10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes ; Mounting : Compliance to IEC60068-2-6						
	UL508, TUV EN60950-1 approved, NEC class 2 / LPS compliant (12V,24V,48V only)						
	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC						
	Compliance to EN61000-3-2,-3						
	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A						
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neters NOT special noise are measure e : includes set up rer supply is consid- ectives.	ACT specially mentioned are measured at 230VAC input, r ated load and 25 of ambient temperature. are measured at 20MHz of bandwidth by using a 12" twisted pair- wire terminated with a 0.1uf & 47uf parallel capacitor.						
	DEFFICIENT DN STANDARDS ND VOLTAGE DN RESISTANCE CTION & RADIATION IIC CURRENT UNITY ON meters NOT specia a noise are measure e : includes set up yer supply is consid rectives.	DN Component 10 ~ 500Hz, 2G 10 STANDARDS UL508, TUV EN60950-1 a IND VOLTAGE I/P-O/P:3KVAC I/P-FG: DN RESISTANCE I/P-O/P, I/P-FG, O/P-FG:> Compliance to EN55011, 1 CTION & RADIATION Compliance to EN61000-3: UNITY UNITY Compliance to EN61000-42, 3 301.7K hrs min. MIL-H ON 40*90*100mm (W*H*D) 0.3Kg; 42pcs/13.6Kg/0.82 meters NOT specially mentioned are measured at 20MHz of bandwidth by us e: includes set up tolerance, line regulation and lo use re supply is considered a component which will be ectives. Stanta	DEFFICIENT ±0.03%/C (0 ~ 50°C) DN Component 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. e STANDARDS UL508, TUV EN60950-1 approved, NEC class 2 / LP IND VOLTAGE I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KV DN RESISTANCE I/P-O/P, I/P-FG, O/P-FG:>100M Ohms/500VDC 25°C Compliance to EN55011, EN55022 (CISPR22), EN6 IIC CURRENT Compliance to EN61000-3-2,-3 UNITY Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN 301.7K hrs min. MIL-HDBK-217F (25°C) ON 40*90*100mm (W*H*D) IO 0.3Kg; 42pcs/13.6Kg/0.82CUFT ated load ar meters NOT specially mentioned are measured at 230VAC input, r ated load ar incicudes set up tolerance, line regulation and load regula tion. wer supply is considered a component which will be installed into a final equipmentectives. tion.	DEFFICIENT ±0.03%/°C (0 ~ 50°C) DN Component 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes STANDARDS UL508, TUV EN60950-1 approved, NEC class 2 / LPS compliant (12V,2) IND VOLTAGE I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC DN RESISTANCE I/P-O/P, I/P-FG, O/P-FG:>100M Ohms/500VDC 25°C 70%RH Compliance to EN55011, EN55022 (CISPR22), EN61204-3 Class B CTION & RADIATION Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-2, 301.7K hrs min. MIL-HDBK-217F (25°C) ON 40°90*100mm (W*H*D) 0.3Kg; 42pcs/13.6Kg/0.82CUFT meters NOT specially mentioned are measured at 230VAC input, r ated load and 25 of ambient ter anoise are measured at 20MHz of bandwidth by using a 12" twisted pair- wire terminated with a 0.1L be a: includes set up tolerance, line regulation and load regula tion. The final equipmenter ver supply is considered a component which will be installed into a final equipment. The final equipmenter			

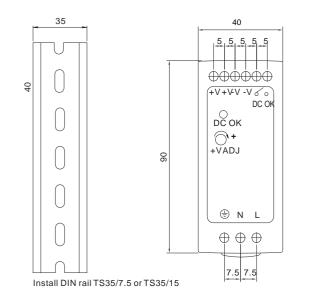
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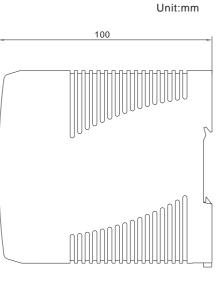


40W Single Output Industrial DIN Rail Power Supply

AKL10011-xx

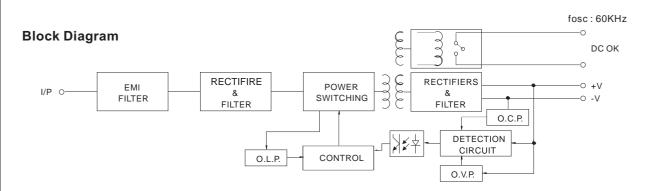
Mechanical Specification





DC OK Relay Contact

Contact Close	When the output voltage reaches the adjusted output voltage.		
Contact Open	When the output voltage drop below 90% output voltage.		
Contact Ratings (max.)	30V/1A resistive load		





Static Characteristics (24V)

