

Features:

- Universal AC input with active PFC
- High efficiency up to 93%
- +5V / 0.3A auxiliary output
- 150% Peak load Capability
- 1U profile, High power density
- Built-in Constant current limiting circuit
- Power OK signal (Power good, Logic low)
- Remote ON-OFF, Remote sense function • Protections: OVP, OLP, OTP, SCP, Fan failure
- 3 years warranty



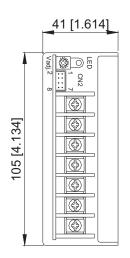


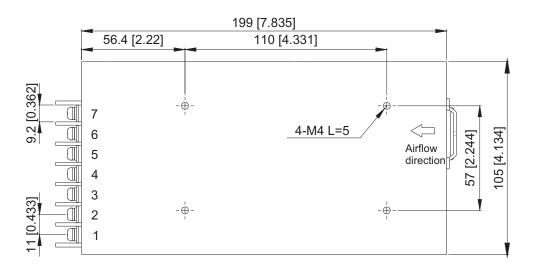
	MODEL	AK-350-05	AK-350-12	AK-350-15	AK-350-24	AK-350-48
	DC Voltage Range	5V	12V	15V	24V	48V
	Rated Current	60A	30A	24A	15A	7.5A
	Current Range	0~60A	0~30A	0~24A	0~15A	0~7.5A
	Rated Power	300W	360W	360W	360W	360W
	Ripple & Noise (Max.) Note.3	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p
Output	Voltage Adj. Range	±10% Typical adjustment by potentiometer				
	Voltage Tolerance Note.4	±1.0%				
	Line Regulation	±0.5%				
	Load Regulation	±0.5%				
	Setup, Rise Time	800ms, 60ms at full load				
	Hold Up Time (Typ.)	16ms / 230VAC at full load				
	Voltage Range Note.5 90 ~ 264VAC 127 ~ 370VDC					
	Frequency Range	47 ~ 63Hz				
	Power Factor (Typ.)	0.98/230VAC, 0.99	7 / 115VAC at full load	d		
Input	Efficiency (Typ.)	83%	90%	90%	91%	93%
	AC Current (Typ.)	4.0A / 115VAC 2.0A	A / 230VAC		<u>'</u>	<u>'</u>
	Inrush Current (Typ.)	27A / 115VAC 54A /	230VAC			
	Leakage Current	<1.0mA/240VAC				
	Over Load	Normally works within 105 ~ 150% rated output power for more than 3 sec and then shutdown O/P voltage with auto-recovery, >150% rated power or short circuit is constant current limiting, if o/p drop to 40% rating output voltage then shutdown and auto-recover 5 time, if fault condition not remove in this 5 time, the system well be shutdown and re-power on to recover.				
Protection	Over Voltage	6.0 ~ 6.5V Protection type: Late	14.4 ~ 15.6V ch-style (Recovery a	18 ~ 19.5V after reset AC power OI	28.8 ~ 31.2V N or inhibit)	57.6 ~ 62.4V
		By detecting primary and secondary heat sink.				
	Over Temperature	Protection type: Shut down o/p voltage (Auto recovers automatically after temperature goes down)				
	Auxiliary Power	5V @ 0.3A (+/- 3%)	, , ,			,
Function	Remote ON/OFF Control	External switch or N	PN Transistor to turn	ON/OFF		
	Power OK Signal	Open drain signal lo	w when PSU turns or	n, Max. sink current: 20	mA, Max. drain voltag	e: 40V.
	Working Temp.	-20 ~ +70°C (Refer to output load de-rating curve)				
	Working Humidity	20 ~ 90% R.H non-condensing				
_	Storage Temp., Humidity	-40~+85°C, 10 ~95%	6 R.H			
Environment	Temp. Coefficient	±0.02%/°C (0 ~ 50°C	C)			
	Vibration	10 ~ 500Hz, 5G 10min/1cycle, period for 60 min each along X,Y,Z axes Compliance to IEC 68-2-6, IEC 68-2-64				
	Safety Standards	UL 60950-1. 2 nd Editi	on. TUV EN60950-1	: 2006+A11 Approved		
	Withstand Voltage	,				
Safety	Isolation Resistance	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC I/P-O/P, I/P-FG; 0.0MΩ / 500VDC I/P-F				
& =MC	EMI Conduction & Radiation	EN55022:1998+A1:2000+A2:2003 Class B				
EMC	Harmonic Current			N61000-3-3 : 1995+A1	:2001	
	EMS Immunity	IEC61000-4-2,3,4,5				
	MTBF		,-,-,,			
Other	Dimension (L*W*H)	199*105*41 mm / 7.8	83*4 13*1 61 inch			
Other	Packing	1.05 kg; 15pcs / 15.				
Note	1.All parameters NOT specially ment 2.Derating may be needed under low 3.Ripple & noise are measured at 20 4.Tolerance: includes set up tolerance	entioned are measured at 230VAC input, rated load and 25°C of ambient temperature. bow input voltages. Please check the de-rating curve for more details. 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47 uf parallel capacitor. ince, line regulation and load regulation. a component which will be installed into a final equipment. The final equipment must be re-confirmed				



Mechanical Specification

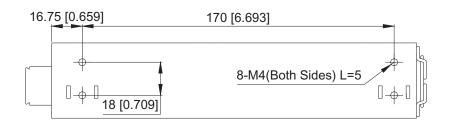
Unit:mm[inch]





AC Input & DC Output Pin No. Assignment

Pin No.	Assignment
1	AC/L
1	
2	AC/N
3	FG
4,5	-V
6,7	+V



Control pin number assignment (CN2): JST S8B-PHDSS or equivalent

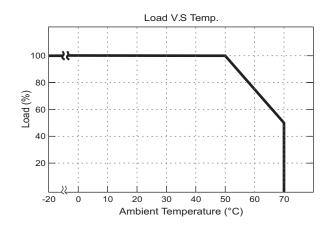
P	in No.	Assignment	Pin No.	Assignment	Mating Housing	Terminal
	1	AUX	5	GND		
	2	GND	6	EN+	PHDR-08VS	SPHD-002T-P05
	3	P-OK	7	VS+	PUDK-0073	3700-0021-703
	4	EN-	8	VS-		

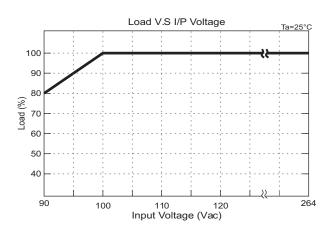
■ Function Description of CN2

Pin No.	Function	Description
1	AUX	+5V / 0.3A auxiliary power
2	GND	Ground
3	P.OK	Power OK
4	EN-	Remote ON/OFF (-)
5	GND	Ground
6	EN+	Remote ON/OFF (+)
7	VS+	Remote voltage sense (+)
8	VS-	Remote voltage sense (–)

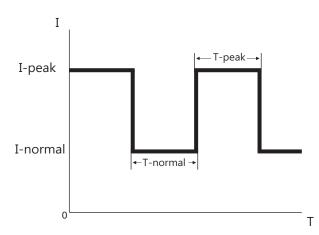


■ De-rating Curve



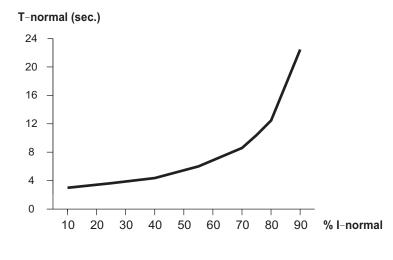


Peak Loading

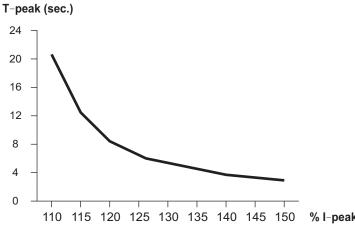


T-PEAK represents the period during which the output current is at 110% to 150% of nominal (shown as I-PEAK). Curve B shows the relationship between the percentage of peak current (I-PEAK) and the allowable duration (T-PEAK).

If the peak current is taken for longer that the allowed duration indicated by curve B, the output current will drop to a constant limited current of 105% of nominal, then. The unit between peak currents (T-NORMAL) is dependant up on the output current drawn between the peaks (I-NORMAL) and curve A shows the relationship between the two. The higher the percentage of normal current (I-NORMAL) is of the nominal current, the longer the interval (T-NORMAL) before the next peak current can be drawn.



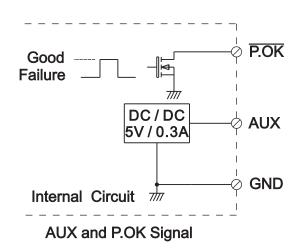
CURVE A



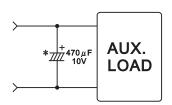
CURVE B



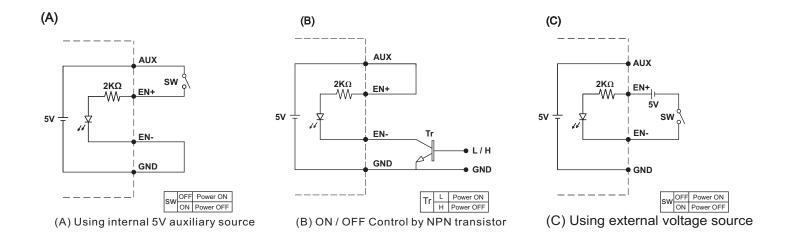
1. Power OK Signal and Auxiliary output



- *Place an additional capacitor to have a better performance of auxiliary power operation.
- *The grounding of "AUX" power should be connected to "GND" port. If " V-" is connected as Grounding, make sure to short the GND and V-ports.



2. Remote ON/OFF Control



3. Remote Sense

