

PAK350 Series 350W Active PFC Single Output

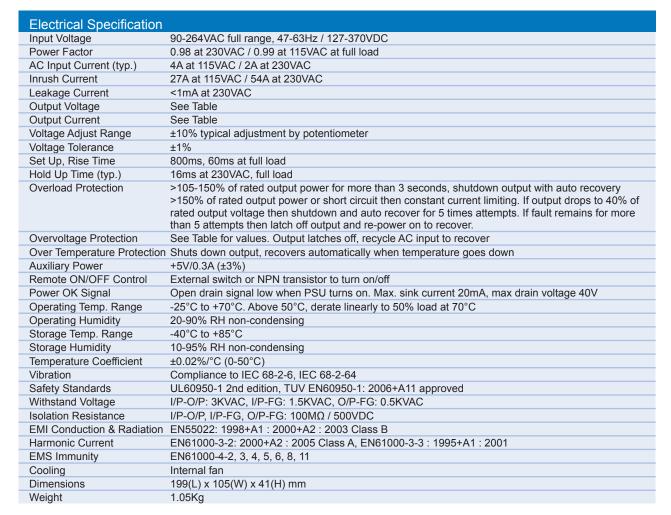
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Features

- · 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
- · OVP, OLP, OTP, SCP, Fan Failure Protections







- . All parameters NOT specifically mentioned are measured at 230VAC input, rated load and 25°C ambient temperature
- 2. Ripple and noise are measured at 20MHz bandwidth by using a 12" twisted pair wire terminated with a 0.1µF ceramic & 47µF electrolytic capacitors across the output 3. Derating is required at low input voltages. Below 100VAC, derate linearly to 80% load at 90VAC

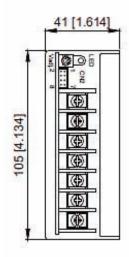
- 4. Tolerance: includes set up tolerance, line regulation and load regulation
 5. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC Directives

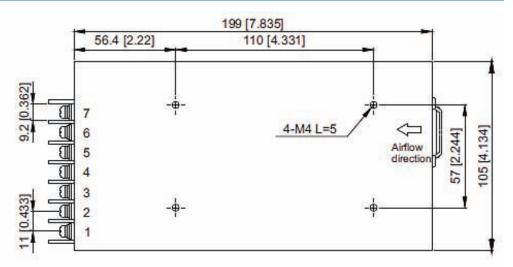


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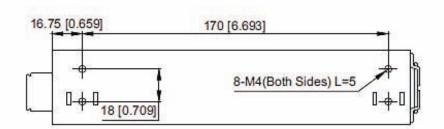
Output Voltage and Current Ratings								
MODEL	OUTPUT VOLTAGE	MAX OUTPUT CURRENT	OVERVOLTAGE PROTECTION	RIPPLE & NOISE	LINE REG.	LOAD REG.	POWER Max.	EFF.
PAK350-05	5V	60A	6.0-6.5V	150mV p-p	±0.5%	±0.5%	300W	83%
PAK350-12	12V	30A	14.4-15.6V	150mV p-p	±0.5%	±0.5%	360W	90%
PAK350-15	15V	24A	18.0-19.5V	150mV p-p	±0.5%	±0.5%	360W	90%
PAK350-24	24V	15A	28.8-31.2V	150mV p-p	±0.5%	±0.5%	360W	91%
PAK350-48	48V	7.5A	57.6-62.4V	150mV p-p	±0.5%	±0.5%	360W	93%

Mechanical & Connection Details





Connections			
Pin	Function		
1	Live		
2	Neutral		
3	Earth		
4	-V out		
5	-V out		
6	+V out		
7	+V out		

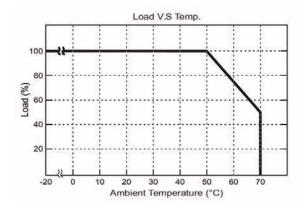


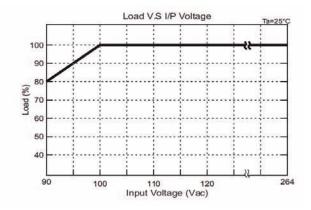
Function Description of CN2, Control Connector				
Pin No.	Function	Description	Mating Housing	Terminal
1	AUX	+5V / 0.3A Auxiliary Power		
2	GND	Ground		
3	POK	Power OK	JST	JST
4	EN-	Remote ON/OFF (-)	J31	331
5	GND	Ground	PHDR-08VS	SPHD-002T-P05
6	EN+	Remote ON/OFF (+)	111010-0003	31 110-0021-1 03
7	VS+	Remote Voltage Sense (+)		
8	VS-	Remote Voltage Sense (-)		



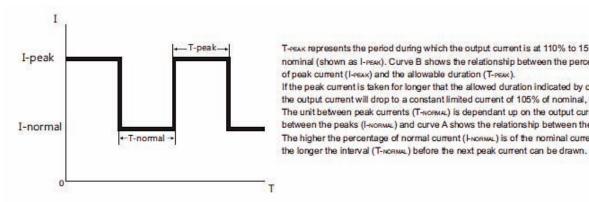
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Derating Curves

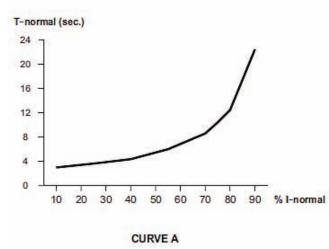


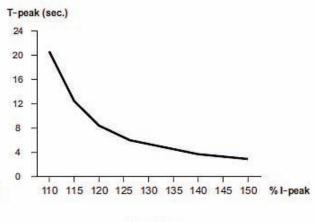


Peak Loading



T-PEAK represents the period during which the output current is at 110% to 150% of nominal (shown as I-rex). 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 (FNORMAL) is of the nominal current,





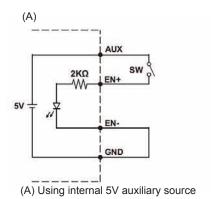
CURVE B



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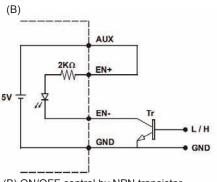
Functions

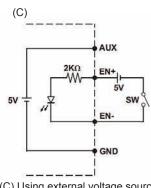
Remote ON/OFF



Power ON

Power OFF





(B) ON/OFF control by NPN transistor

Tr	L	Power ON
''	Н	Power OFF

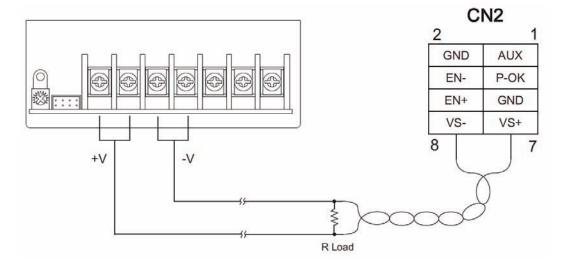
(C) Using external voltage source

SW	OFF	Power ON		
300	ON	Power OFF		

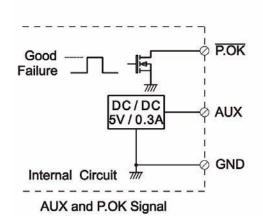
Remote Sense

SW

ON



Power OK Signal & 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

