

## ■ Features:

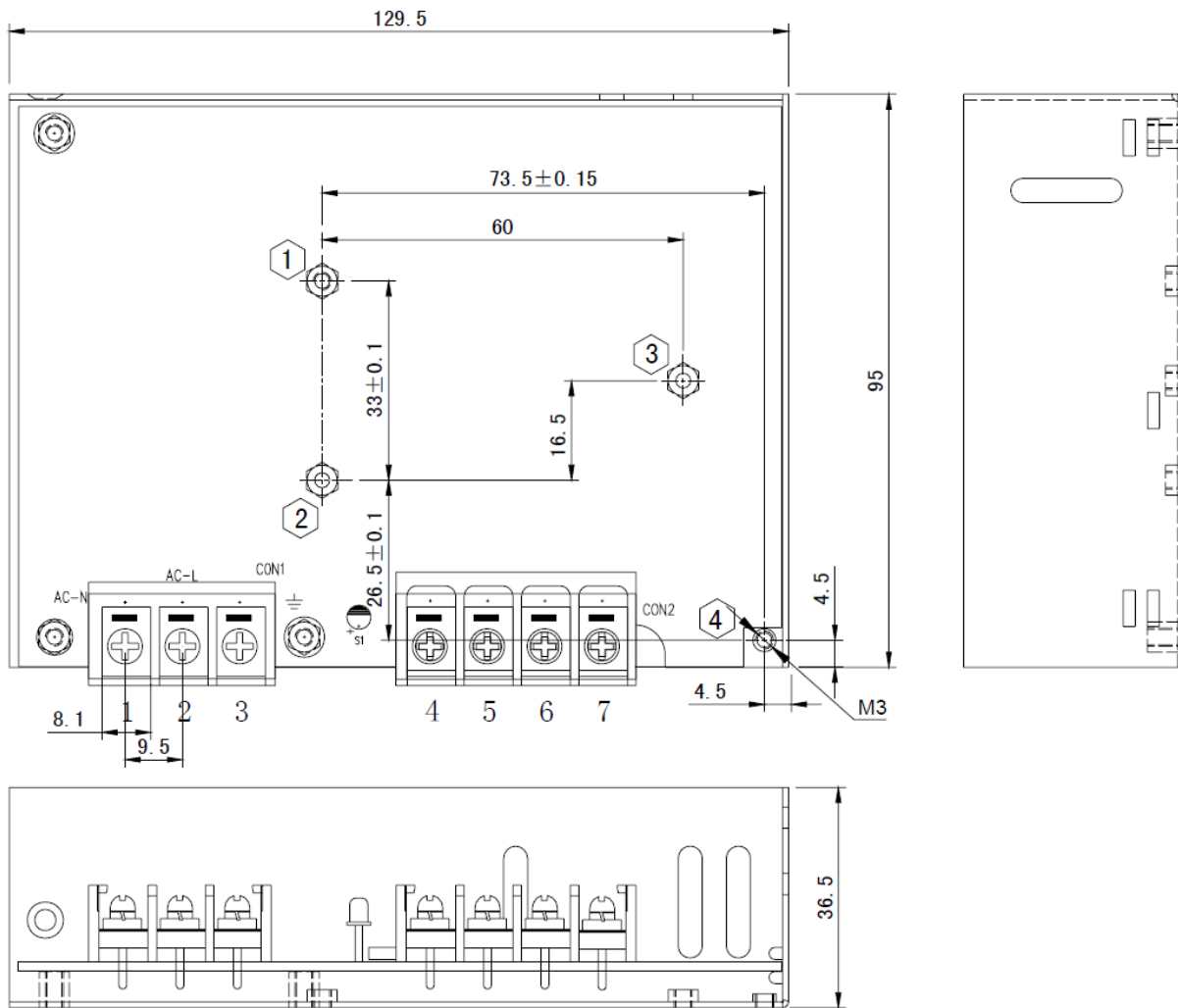
- ✓ AC input 176Vac~264Vac
- ✓ Protections: SCP/OLP/OVP
- ✓ Battery low protection/ Batter reverse polarity protection by fuse
- ✓ Constant current limiting for charging battery
- ✓ "0" switch time from the SMPS to Battery when AC fail
- ✓ 100% full load burn-in test
- ✓ 2 years warranty



## SPECIFICATIONN

MODEL			KHD-09005	
OUTPUT	Ouput Number		V1	V2
	DC Output		12.8V	13.8V
	Rated Current		4A	0.5A（constant current）
	Current Range	Note 1	0.4~4A	/
	Ripple and Noise	0~50℃	≤70mVp-p	/
		-10~0℃	≤120mVp-p	/
	Voltage Accuracy		±1.0%	/
	Line Regulation		±0.5%	/
	Load Regulation		±3.0%	/
	Voltage Adjustable Range		±30.0%	
	Set-up Time		< 1S (230Vac input, Full load)	
	Hold up Time		> 20mS(230Vac input, Full load)	
	Temperature Coefficient		±0.03%/℃	
	Overshoot &Undershoot		<5.0%	
INPUT	Voltage Range		176Vac~264Vac	
	Frequency Range		47Hz-63Hz	
	Efficiency ( Typical)		>78%@230Vac	
	AC Current (max.)		2A	
	Inrush Current (Typical)		<40A@230Vac Cold start	
	Leakage Current		Input—Output: ≤0.07mA Input—PG: ≤3.5mA	
PROTECTION	Battery Low		9.9V±3%	
	Over Current		V1:105%-150% of rated current, hiccup mode, auto recovery	
	Over Voltage		V1: 105%-180% of rated voltage, auto recovery	
	Shorted Circuit		Long-time; auto recovery	
ENVIRONMENT	Operating.Temp.& Hum.		-10℃~45℃; 20%~90%RH No condensing	
	Storage Temp. & Hum.		-20℃~85℃; 10%~95%RH No condensing	
SAFETY & EMC (Note 3)	Safety Standards		GB4943-2001; EN60950-1: 2006	
	Withstand Voltage		Primary-Secondary:3.0KVac;≤10mA.Primary-PG:1.5KVac;≤10mA.Secondary-PG:0.5KVDC;≤10mA.	
	Isolation Resistance		≥100M ohms	
OTHERS	MTBF (MIL-HDBK-217F)		More than 200,000Hrs (25℃, Full load)	
	Dimension (L*W*H)		129×98×38mm	
	Cooling method		Cooling by free air convection	
NOTE	1. All parameters NOT specially mentioned are measured at rated input, rated load and 25℃ of ambient temperature. 2. Measured at 20MHz of bandwidth by using a 12” twisted pair-wire terminated with a 0.1 uF & 10uF parallel capacitor. 3. The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still meets EMC directives.			

■ **Mechanical Specification**



Terminal	Function		
1	N	4	BAT+
2	L	5	BAT-
3	FG	6	GND
		7	V1