


**■ Features :**

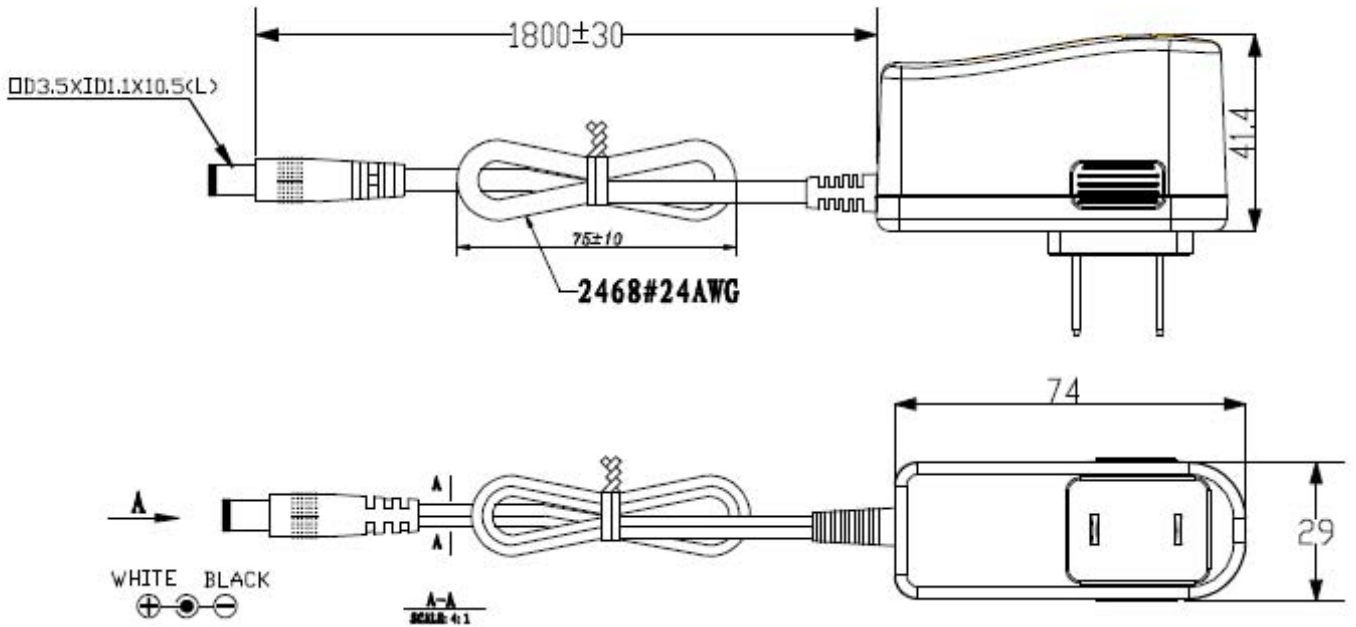
- Built-in switching power technology for worldwide 90 to 264V AC use
- No load power consumption<0.4W
- Fast-charge termination by 0△V&-△V
- Typical charging time: 6 hours
- Maximum output power: 6W
- Protections: Short circuit / Over load / Over voltage
- Constant current (CC mode)
- Approvals:CUL/CB/FCC
- Fast charge: 250-1000mA
- Trickle charge: 25-50mA
- 2 year warranty


**SPECIFICATION**

ORDER NO.		HR05NS03	HR05NS04	HR05NS05	HR05NS06	HR05NS07	HR05NS08	HR05NSABC-XYZ
OUTPUT	DC VOLTAGE	4.2V	5V	9V	12V	15V	24V	3~24V
	RATED CURRENT	1000mA	1000mA	660mA	500mA	400mA	250mA	/
	CURRENT RANGE	0~ 1000mA	0 ~ 1000mA	0 ~ 660mA	0 ~ 500mA	0 ~ 400mA	0 ~ 250mA	0~1000 mA
	RATED POWER	4.2W	5W	6W	6W	6W	6W	6W
	RIPPLE & NOISE (max.)	120mVp-p	120mVp-p	120mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	3V~4.2V	4.2V~5V	5V~9V	9V~12V	12~15V	15~24V	3~24V
		Fixed						
	VOLTAGE TOLERANCE	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%
	LED INDICATOR	Red: charging Green: finish/standby Red flash: Battery pack error						
SETUP, RISE, HOLD UP TIME	3000ms, 50ms, 16ms at full load							
INPUT	VOLTAGE RANGE	90 ~ 264VAC		135 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz						
	EFFICIENCY (Typ.)	65%	65%	72%	74%	76%	77%	65%
	AC CURRENT							
	INRUSH CURRENT (Typ.)	50A/230VAC						
	LEAKAGE CURRENT (max.)	0.25mA / 240VAC						
PROTECTION	OVER LOAD	90 ~ 110% Constant current mode Protection type : Hiccup mode, recovers automatically after fault condition is removed						
	OVER VOLTAGE	135 ~ 180% rated output voltage Protection type : Clamp by PWM IC						
ENVIRONMENT	WORKING TEMP.	0 ~ + 40℃ (Refer to output load derating curve)						
	WORKING HUMIDITY	20% ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃ , 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03% /℃ (0 ~ 50℃)						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes						
SAFETY & EMC (Note.8)	SAFETY STANDARDS	UL60950-1, CSA 22.2, EN60950-1 Approved						
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC						
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃ / 70% RH						
	EMICONDUCTION& RIATION	Compliance to EN55022 class B, FCC PART 15 class B						
	HARMONIC CURRENT	Compliance to EN61000-3-2,3						
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,11, Light industry level, criteria A							

	DIMENSION	74*29*41.4mm (L*W*H)
	PACKING (Typ.)	78g ;
CONNECTOR	PLUG	Standard type : 1.1Φ* 3.5Φ* 10.5mm, tuning fork type center positive available ; Other type available per customer request
	CABLE	Standard type 24Awg UL2468; Other type available per customer request

■ Mechanical Specification



■ Derating Curve

■ Static Characteristics

