

YS50 SERIES



Input: 100-265VAC 50/60Hz
Output Voltage: 5V-36V DC
Rated Power: 60W max

Features

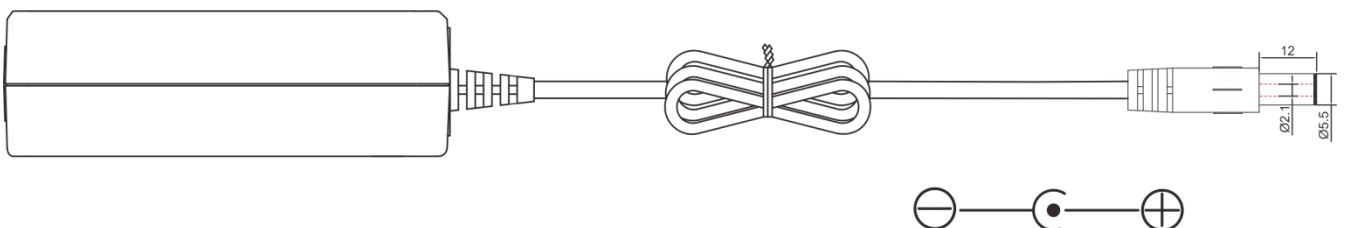
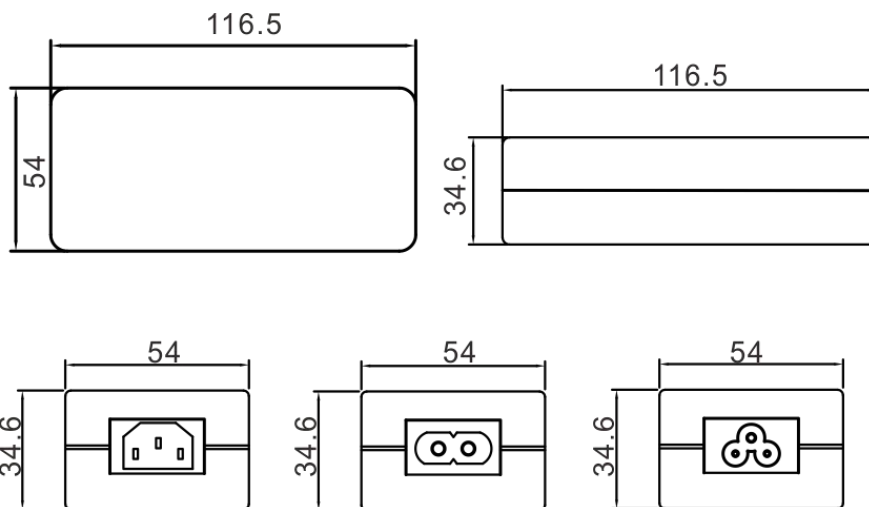
- Universal AC input/full range
- No load power consumption <1.0W
- Constant current and voltage(CC,CV mode)
- Protections: Short circuit / Overload / Over voltage / Over temp
- LED indicate for charging status
- Fully enclosed plastic case
- High reliability

Application

- Electric scooter
- Scooter
- Balance car



■ Dimensions and Installation

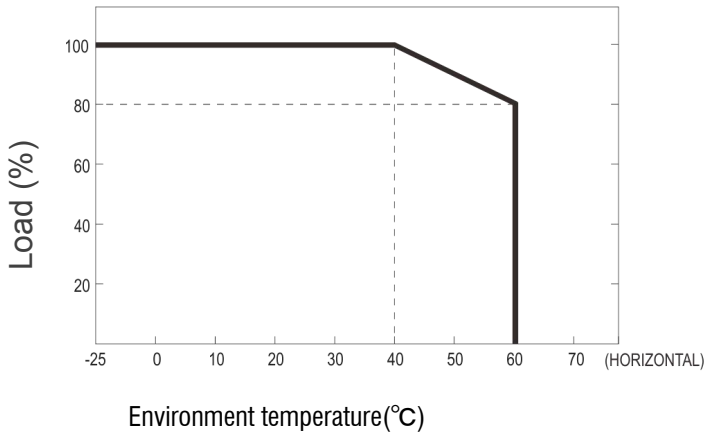


YS50 SERIES

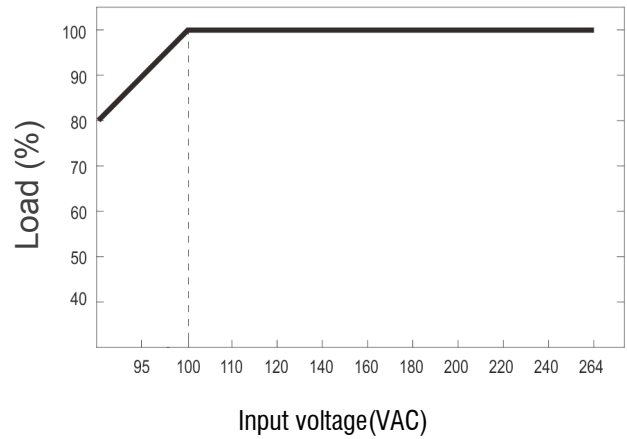
MODEL DETAIL SPEC.		YS50-5461000	YS50-4201400	YS50-2942000	YS50-2102800	YS50-1683500	S50-5461000
INPUT	Input Voltage:	85-265VAC					
	Input Frequency:	50/60Hz					
	Inrush Current:	40A/115VAC 60A/230VAC					
	AC Current:	1.5A max.					
	Leakage Current:	< 0.25mA/240VAC					
OUTPUT	DC Voltage:	54.60V	42.00V	29.40V	21.00V	16.80V	54.60V
	Rated Current:	1.00A	1.40A	2.00A	2.80A	3.50A	1.00A
	Rated Power:	55.00W	58.80W	58.80W	58.80W	58.80W	55.00W
	Voltage Tolerance:	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%
	Ripple and Noise:	500mVp-p	400mVp-p	294mVp-p	288mVp-p	210mVp-p	500mVp-p
	Line Regulation:	±3%					
	Load Regulation:	±5%	±5%	±5%	±5%	±5%	±5%
	Setup, Rise, Hold Up time:	500ms, 30ms/120ms 230VAC 1000ms, 30ms/25ms 115VAC at full load					
ENVIRONMENTAL	Operating Temperature:	-20 ~ +60 (Refer to "Derating Curve")					
	Storage Temp:	-40°C ~ 85°C					
	Storage Humidity:	10 ~ 95% RH					
	Working Humidity:	20 ~ 95% RH non-condensing					
PROTECTION	Over Load:	Above 105% rated output power					
		Protection type: Hiccup mode, recovers automatically after fault condition is removed					
	Over Voltage:	≤Vout*150%					
		Protection type: Shut down o/p voltage, re-power on to recover					
Over Temperature:	N/A						
SAFETY & EMC	Safety Regulations:	UL62368-1 , UL1012 , EN62368-1 , EN60335-1 , EN60335-2-29(except for 55.2V) approved					
	Withstand Voltage:	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC					
	Isolation Resistance:	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH					
	EMC Emission:	Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020, CNS13438 Class B					
	EMC Immunity:	EN55032 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3					
OTHER	MTBF:	500Khrs min. MIL-HDBK-217F(25°C)					
	Size:	115.5*52*32.5mm					
	Weight:	260g / pcs					
	Packaging:	50PCS/CTN					

YS50 SERIES

Deduction curve and temperature



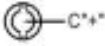
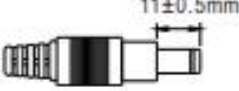





Minus output and input voltage curves



Functional Diagram

Standard plug: P1J

P1J		Pin Assignment
		
		Outside    Inside -V not connected to AC FG (standard) -V connected to AC FG (optional)

DC plug changeable through:



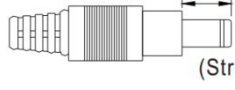
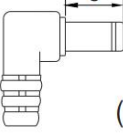


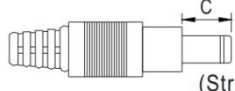
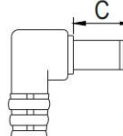


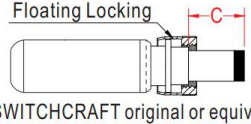

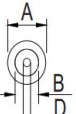
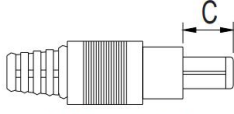


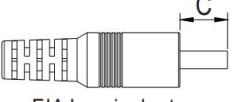
- (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
- (2) Quick adapter accessory (sold separately without MOQ)

Please refer to below table and online selection guide :

Example quick adapter accessory:

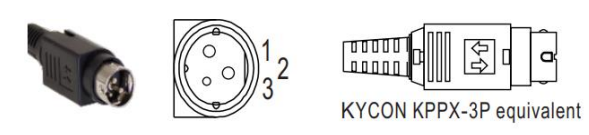
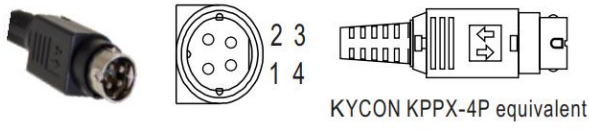
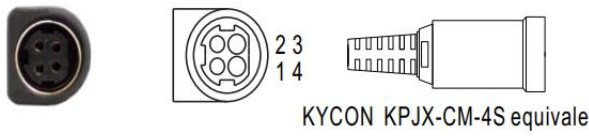

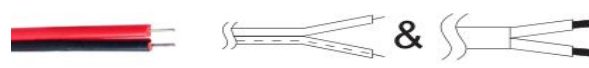
YS50 SERIES

Optional DC plug: (Available in customized cable or quick adapter)

Tuning Fork Style		Type No.	A	B	C	Quick Adapter Accessory	
			OD	ID	L		
   <p>(Straight)</p>  <p>(Right-angled)</p>	P1I	5.5	2.1	9.5	Available (Current rating: 7.5A max.)		
	P1L	5.5	2.5	9.5			
	P1M	5.5	2.1	11.0			
	P1IR	5.5	2.5	9.5			
	P1JR	5.5	2.1	11.0			
	P1LR	5.5	2.5	9.5			
	P1MR	5.5	2.5	11.0			
Barrel Style		Type No.	A	B	C	Quick Adapter Accessory	
			OD	ID	L		
   <p>(Straight)</p>  <p>(Right-angled)</p>	P2I	5.5	2.1	9.5	None		
	P2J	5.5	2.1	11.0			
	P2L	5.5	2.5	9.5			
	P2M	5.5	2.1	11.0			
	P2IR	5.5	2.5	9.5			
	P2JR	5.5	2.1	11.0			
	P2LR	5.5	2.5	9.5			
P2MR	5.5	2.5	11.0				
Lock Style		Type No.	A	B	C	Quick Adapter Accessory	
			OD	ID	L		
   <p>Floating Locking SWITCHCRAFT original or equivalent</p>	P2S(S761K)	5.53	2.03	12.06	None		
	P2K(761K)	5.53	2.54	12.06			
	P2C(S760K)	5.53	2.03	9.52			
	P2D(760K)	5.53	2.54	9.52			
Center Pin Style		Type No.	A	B	C	D	Quick Adapter Accessory
			OD	ID	L	Center Pin	
   <p>EIAJ equivalent</p>	P4A	5.5	3.4	11.0	1.0	Available (Current rating: 7.5A max.)	
	P4B	6.5	4.4	11.0	1.4		
	P4C	7.4	5.1	11.0	0.6		
Min. Pin Style		Type No.	A	B	C	Quick Adapter Accessory	
			OD	ID	L		
   <p>EIAJ equivalent</p>	P3A	2.35	0.7	11.0	Available (Current rating: 5A max.)		
	P3B	4.0	1.7	11.0			
	P3C	4.75	1.7	11.0			

YS50 SERIES

Optional DC plug: (Available in customized cable or quick adapter)

Tuning Fork Style	Type No.	Pin Assignment		Quick Adapter Accessory
		PIN No.	Output	
 <p>KYCON KPPX-3P equivalent</p>	R6B	1	+Vo	Available (Current rating: 7.5A max.)
		2	-Vo	
		3	+Vo	
Barrel Style	Type No.	Pin Assignment		Available (Current rating: 7.5A max.)
 <p>KYCON KPPX-4P equivalent</p>	R7B	PIN No.	Output	
		1	+Vo	
		2	-Vo	
		3	-Vo	
		4	+Vo	
Lock Style	Type No.	Pin Assignment		None
 <p>KYCON KPJX-CM-4S equivalent</p>	R7BF	PIN No.	Output	
		1	+Vo	
		2	-Vo	
		3	-Vo	
		4	+Vo	
Center Pin Style	Type No.	Pin Assignment		Available (Current rating: 7.5A max.)
	R1B	PIN No.	Output	
		1	-Vo	
		2	-Vo	
		3	+Vo	
		4	-Vo	
		5	+Vo	
Center Pin Style	Type No.	Pin Assignment		None
	by customer	PIN No.	Output	
		1	+Vo	
		2	-Vo	