

**YS100 SERIES**



**Input: 100-265VAC 50/60Hz**  
**Output Voltage: 5V-36V DC**  
**Rated Power: 90W max**

**Features**

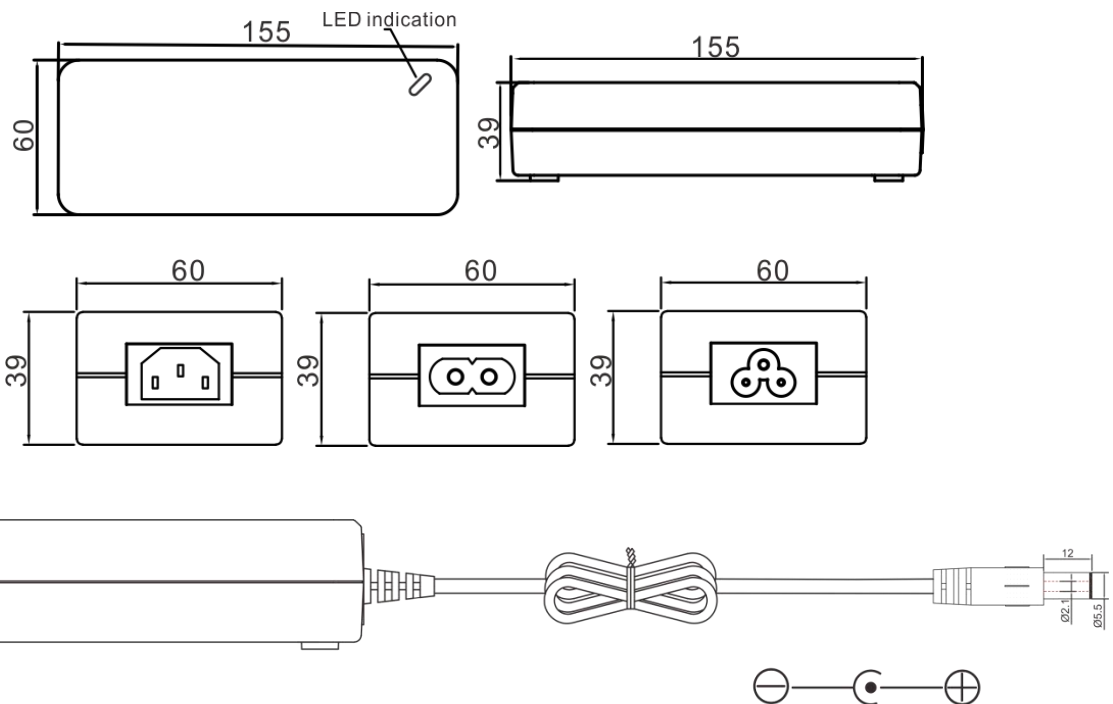
- Universal AC input/full range
- No load power consumption <1.0W
- Constant current and voltage(CC,CV mode)
- Protections: Short circuit / Overload / Over voltage / Over temp
- LED indicate for charging status
- Fully enclosed plastic case
- High reliability

**Application**

- E-bike
- Scooter
- Balance car



**■ Dimensions and Installation**

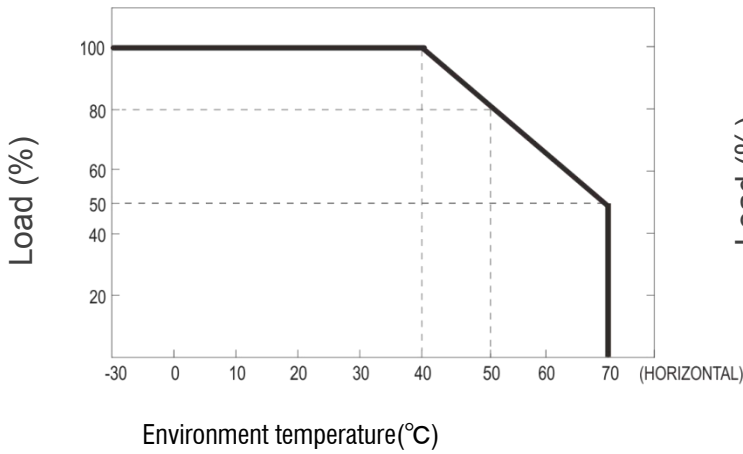


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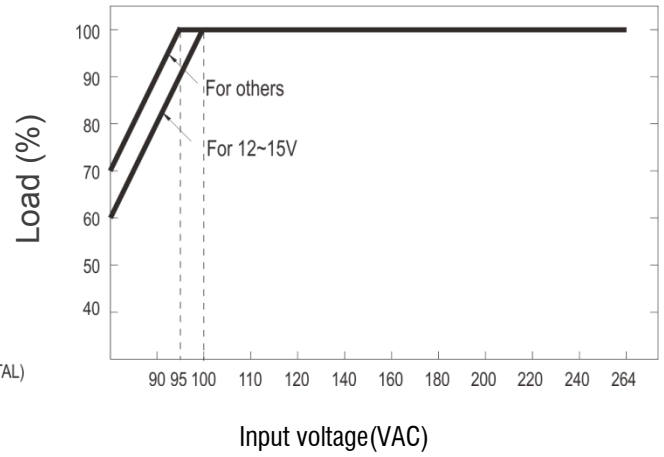
MODEL DETAIL SPEC.		YS100-6721300	YS100-5461600	YS100-4202000	YS100-2883000	YS100-2104000	YS100-6721300
INPUT	Input Voltage:	85-265VAC					
	Input Frequency:	50/60Hz					
	Inrush Current:	40A/115VAC 60A/230VAC					
	AC Current:	1.5A max.					
	Leakage Current:	< 0.25mA/240VAC					
OUTPUT	DC Voltage:	67.2V	54.60V	42.00V	28.80V	21.00V	67.2V
	Rated Current:	1.30A	1.60A	2.00A	3.00A	4.00A	1.30A
	Rated Power:	87.00W	87.36W	84.00W	86.40W	84.00W	87.00W
	Voltage Tolerance:	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%
	Ripple and Noise:	600mVp-p	500mVp-p	400mVp-p	288mVp-p	210mVp-p	600mVp-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:	When the NTC resistance temperature is between 85°C and 100°C ,The power supply shall be protected and no deformation and no discoloration on case					
	Safety Regulations:	UL62368-1 , UL1012 , EN62368-1 , EN60335-1 , EN60335-2-29(except for 55.2V) approved					
SAFETY & EMC	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:	155*60*37mm					
	Weight:	590g / pcs					
	Packaging:	20PCS/CTN					

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**Deduction curve and temperature**



**Minus output and input voltage curves**



**Functional Diagram**

Standard plug: P1J

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



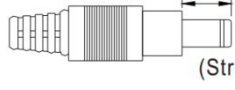
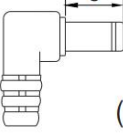


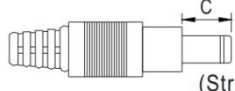
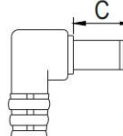


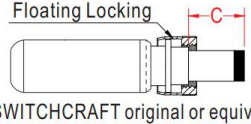

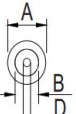
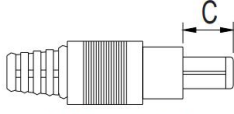


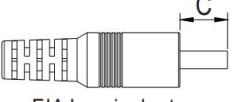
**DC plug changeable through:**

- (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:

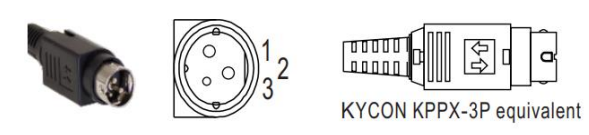
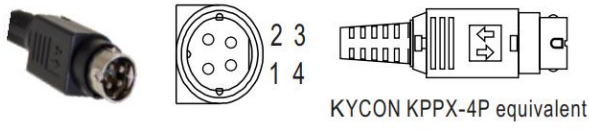
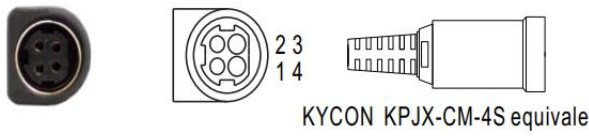

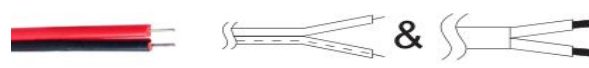
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Optional DC plug: (Available in customized cable or quick adapter)

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			

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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	