

# YS35V-E SERIES

## 36W



### Features

- Energy efficiency level VI
- Class II Power Supply
- 3 Years Warranty
- Universal AC input/Full range
- No load power consumption < 0.1W
- Protections: Short Circuit /Over Load / Over Voltage
- -20~+50°C wide range working temperature

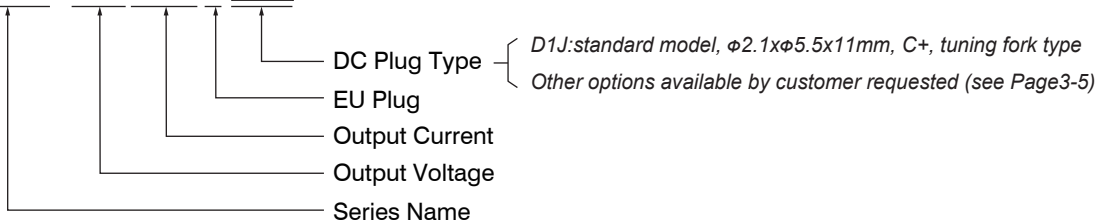
### Applications

- Digital Equipment
- Industrial Equipments
- Consumer Electronic Devices
- Telecommunication Devices

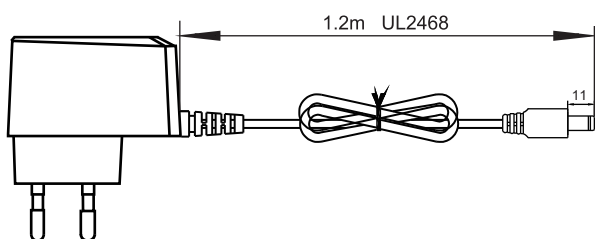


### Model Description

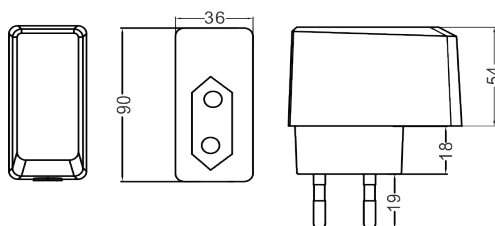
YS35V - XXXYYYY E-D1J



### Dimensions and installation



Standard Cable	1.2m UL2468 (Option: UL2464, UL1185)
5 ~ 9V	18AWG
12V	20AWG
24 ~ 36V	22AWG
48V	24AWG



## Specification

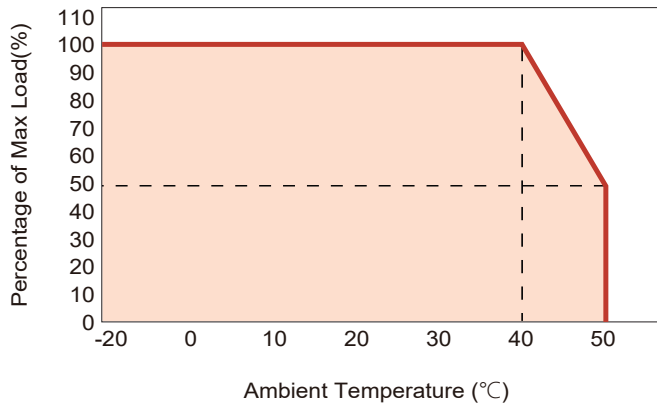
Model	Order P/N	YS35V-0505000E-D1J	YS35V-0904000E-D1J	YS35V-1203000E-D1J	YS35V-2401500E-D1J	YS35V-3601000E-D1J	YS35V-4800750E-D1J
	Safety Model No.	YS35V-0505000	YS35V-0904000	YS35V-1203000	YS35V-2401500	YS35V-3601000	YS35V-4800750
Output	DC Voltage	5V	9V	12V	24V	36V	48V
	Rated Current	5A	4A	3A	1.5A	1A	0.75A
	Rated Power	25W	36W	36W	36W	36W	36W
	Ripple & Noise(max.)	75mVp-p	90mVp-p	120mVp-p	200mVp-p	300mVp-p	400mVp-p
	Voltage Tolerance	±5%	±5%	±5%	±5%	±5%	±5%
	Line Regulation	±3%	±3%	±3%	±3%	±3%	±3%
	Load Regulation	±5%	±5%	±5%	±5%	±5%	±5%
	Setup,Rise,Hold up Time	0.5s,30ms,80ms/230VAC(at full load)			1.0s,30ms,12ms/115VAC(at full load)		
Input	Rated Voltage Range	100-240VAC					
	Voltage Range	90-264VAC					
	Frequency Range	50/60Hz					
	AC Current	0.2A/115VAC		0.21A/230VAC			
	Inrush Current	Cold Start 30A/200us at 230VAC 50Hz			Cold Start 15A/200us at 115VAC 50Hz		
	Leakage Current	<0.25mA/230VAC					
	Efficiency	86.4%	87.5%	87.5%	88%	88.5%	89%
	No Load Power Consumption	<0.1W					
Protection	Over Load	105~150% Hiccup mode, recovers automatically after fault condition is removed.					
	Short Circuit	Recovers automatically after fault condition is removed.					
	Over Voltage	120~180%					
		Shut down o/p voltage, re-power on to recover					
Ambient	Working TEMP.	-20 ~ +50 C (Please refer to "Derating Curve"section)					
	Working Humidity	20 ~ 95%RH Non-condensing					
	Storage TEMP. Humidity	-40 ~ +85 C, 10 ~ 95%RH Non-condensing					
	TEMP. Coefficient	±0.03%/(0 ~ 40 C)					
	Vibration	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes					
Safety	Safety Standards	EN62368-1					
	Withstand Voltage	I/P-O/P: 3KVAC/1min					
	Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25 C / 70% RH					
EMC	EMC Emission	Parameter	Standard			Test Level	
		Conducted	EN55032(CISPR32)			CLASS B	
		Radiated	EN55032(CISPR32)			CLASS B	
		Harmonic Current	EN61000-3-2			CLASS B	
		Voltage flicker	EN61000-3-3			CLASS B	
	EMC Immunity	Parameter	Standard			Test Level	
		ESD	EN61000-4-2			Level 3, 8KV air, criteria A	
		Radiated Susceptibility	EN61000-4-3			Level 3, criteria A	
		EFT/Burest	EN61000-4-4			Level 3, criteria A	
		Surge	EN61000-4-5			Level 4, 2KV/L-N, criteria A	
		Conducted	EN61000-4-6			Level 3, criteria A	
Magnetic Field		EN61000-4-8			Level 4, criteria A		
Voltage Dips and interruptions	EN61000-4-11			> 95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods			
Others	Packing	180g/pcs; 55 x 26 x 24.5 cm; 50pcs/carton					
	Dimension (LxWxH)	90 x 36 x 54 mm					
	Plug and Cable	See page 3~5; Other type available by customer requested					
	MTBF	154.6Khrs min. MIL-HDBK-217F(25 C)					
Note	<p>1. Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</p> <p>3.Line regulation is measured from low line to high line at rated load.</p> <p>4.Load regulation is measured from 0% to 100% rated load.</p> <p>5. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 C of ambient temperature.</p> <p>6. De-rating may be needed under low input voltages. Please refer to "Static Characteristic" sections for details.</p> <p>7. The power supply is considered as a component that will be operated in combination with final equipment.Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.</p>						

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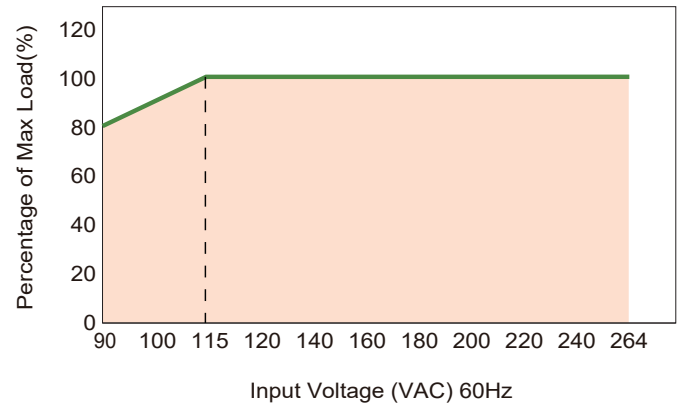
## 36W

### Feature Curves

#### 1. Derating Curve

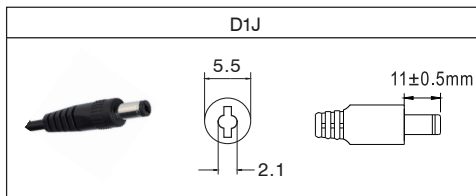
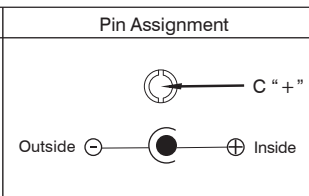


#### 2. Static Characteristics



### DC Output Plug (Option)

Standard Model : D1J

D1J	Pin Assignment
	

Optional DC plug:

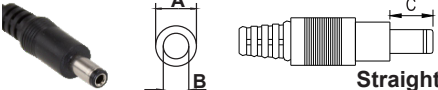
Tuning Fork Style	Straight		
	A	B	C
Type No.	OD	ID	L
	D1I	5.5	2.1
D1L	5.5	2.5	9.5
D1M	5.5	2.5	11.0

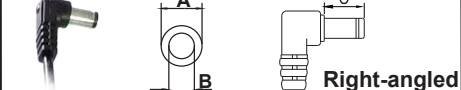
Tuning Fork Style	Right-angled		
	A	B	C
Type No.	OD	ID	L
	D1IR	5.5	2.1
D1JR	5.5	2.1	11.0
D1LR	5.5	2.5	9.5
D1MR	5.5	2.5	11.0

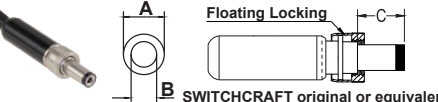
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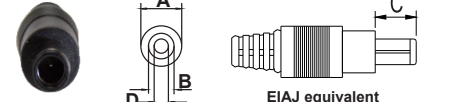
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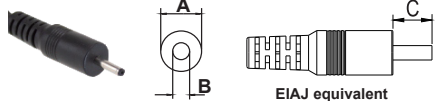
### DC Output Plug (Option)

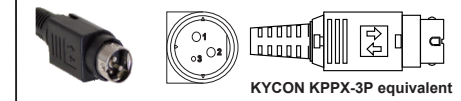
Barrel Style			
	A	B	C
Type No.	OD	ID	L
D2I	5.5	2.1	9.5
D2J	5.5	2.1	11.0
D2L	5.5	2.5	9.5
D2M	5.5	2.5	11.0

Barrel Style			
	A	B	C
Type No.	OD	ID	L
D2IR	5.5	2.1	9.5
D2JR	5.5	2.1	11.0
D2LR	5.5	2.5	9.5
D2MR	5.5	2.5	11.0

Lock Style			
	A	B	C
Type No.	OD	ID	L
D2S(S761K)	5.53	2.03	12.06
D2K(761K)	5.53	2.54	12.06
D2C(S760K)	5.53	2.03	9.52
D2D(760K)	5.53	2.54	9.52

Center Pin Style				
	A	B	C	D
Type No.	OD	ID	L	Center Pin
D4A	5.5	3.4	11.0	1.0
D4B	6.5	4.4	11.0	1.4
D4C	7.4	5.1	11.0	0.6



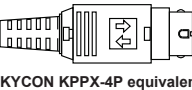
Tuning Fork Style			
	A	B	C
Type No.	OD	ID	L
D3A	2.35	0.7	11.0
D3B	4.0	1.7	11.0
D3C	4.75	1.7	11.0



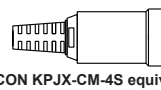
MIN.Din 3Pin with Lock(male)		
	Pin Assignment	
Type No.	PIN No.	Output
M6B	1	+Vo
	2	-Vo
	3	+Vo


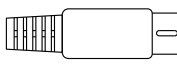

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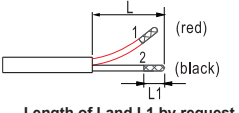
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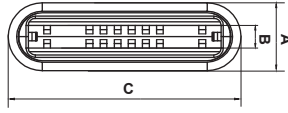

### DC Output Plug (Option)

<b>MIN.Din 4Pin with Lock(male)</b>				KYCON KPPX-4P equivalent
<b>Type No.</b>	<b>Pin Assignment</b>			
	<b>PIN No.</b>	<b>Output</b>		
<b>M7B</b>	1	<b>+Vo</b>		
	2	<b>-Vo</b>		
	3	<b>-Vo</b>		
	4	<b>+Vo</b>		

<b>MIN.Din 4Pin with Lock(female)</b>				KYCON KPJX-CM-4S equivalent
<b>Type No.</b>	<b>Pin Assignment</b>			
	<b>PIN No.</b>	<b>Output</b>		
<b>M7BF</b>	1	<b>+Vo</b>		
	2	<b>-Vo</b>		
	3	<b>-Vo</b>		
	4	<b>+Vo</b>		

<b>Barrel Style</b>			
<b>Type No.</b>	<b>Pin Assignment</b>		
	<b>PIN No.</b>	<b>Output</b>	
<b>M1B</b>	1	<b>-Vo</b>	
	2	<b>-Vo</b>	
	3	<b>+Vo</b>	
	4	<b>-Vo</b>	
	5	<b>+Vo</b>	

<b>Stripped and tinned leads</b>		
Length of Land L1 by request YJ's standard length, L: 30 mm, L1: 5 mm NOTE: The wire color is for reference only, please refer to the actual product		
<b>Type No.</b>	<b>Pin Assignment</b>	
	<b>PIN No.</b>	<b>Output</b>
<b>by customer</b>	1	<b>+Vo</b>
	2	<b>-Vo</b>

<b>Type-C</b>			
<b>Type No.</b>	<b>A</b>	<b>B</b>	<b>C</b>
	<b>OD</b>	<b>ID</b>	<b>L</b>
<b>C1</b>	<b>2.4</b>	<b>1.3</b>	<b>8.25</b>