

# TCX HIGH END SERIES

## 12V/24V 60W- 400W



\*LED Strip Lights, Commercial Lighting,  
Neon and Accent Lighting,  
LED Signs and Lightboxes, Smart Home Lighting

### FEATURE

- ◎ Two years warranty
- ◎ 100% Load burn-in test
- ◎ Built-in EMI filter
- ◎ Output over-voltage, over-current and short-circuit protection
- ◎ Ultra slim design, suitable narrow install
- ◎ Low output ripple and noise
- ◎ Average no trouble working >20,000 hours

### PRODUCT PARAMETERS

CE FC CQC SAA RoHS

Model	Pout	Vin	Vout	Iout	Effi	IP	Size(mm)	Pcs/Ctn
TCX-60-12	60W	200-240V AC	DC12V/24V	5.0A/2.5A	93%	IP20	115*48*28	100
TCX-100-12	100W	200-240V AC	DC12V/24V	8.3A/4.1A	93%	IP20	144*48*28	90
TCX-200-12	200W	200-240V AC	DC12V/24V	16.7A/8.3A	93%	IP20	184*48*28	90
TCX-300-12	300W	200-240V AC	DC12V/24V	25.0A/12.5A	93%	IP20	191*58*30	60
TCX-400-12	400W	200-240V AC	DC12V/24V	33.0A/16.7A	93%	IP20	225*58*30	60

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**TCX-400W 12V**

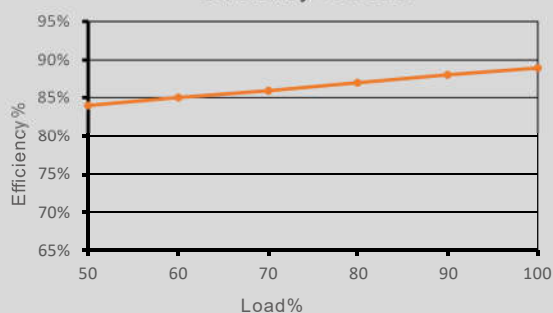
# TCX HIGH END SERIES

Model		TCX-400W 12V	TCX-400W 24V
OUTPUT	DC voltage	12V	24V
	Rated current	33.3A	16.7A
	Cuttent range	0-33.3A	0-16.7A
	Rated output power	400W	400W
	Ripples and noise	≤200mVp-p	≤300mVp-p
	Output current range	11.5-12.5V	23-25V
	Precision of output voltage regulation	±0.5%	±0.5%
	Rate of lenear adjustment	±0.5%	±0.5%
	Load adjustment rate	±0.5%	±0.5%
	The startup time	≤2s/230VAC	
INPUT	Keep time	10ms/230VAC	
	Voltage range	176-264VAC	
	Frequency range	50Hz	
	Power factor	PF≥0.6/230VAC	
	Efficiency	≥89%	≥91%
	Alternating current	3.4A/230VAC	
	Surge current	50A/230VAC	
	Leakage current	<5mA/230VAC	
PROTECTION	Overload	110%-140%: rated 110%-140% of the total power input protection mode:Auto recovery mode.the system automatically recovers when abnormal load conditions are removed	
	Short circuit	protection mode:Auto recovery mode.the system automatically recovers when abnormal load conditions are removed	
	Over voltage	protection mode:self-recovery mode,automatic recovery when the overvoltage is removed	
	Over temperature	protection mode:self-recovery mode,automatically recover when the temperature drops	
ENVIRONMEN		working temperature	-35~+50°C
		working humidity	20-90% RH
		storage temperature;humidity	-30~+85°C; 10~95% RH
		temperature coefficient	±0.1%/°C(0-35°C)
		resistance to vibration	10-500Hz, 3G 10min. / 1 cycle, 60 min. each axes
SAFETY&EMC		safety norms	EN60950 , GB4943.1 -2011
		withstand voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
		insulation impedance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH
		EMC	--
other		protection grade	IP20
		MTBF	≥30khour 25°C
		power supply size	L225*W58*H30mm
		power supply weight	385g
NOTE		1.Unless otherwise specified , all specification are measured at an input of 230VAC,rarted negative cut,and ambient temperature of 25°C	
		2.Ripple and noise measurement method:the measured end is connected in parallel with a 0.1uF+10uF capacitor,the oscilloscope is set to 20MHZ bandwidth,and the probe is tested with cap off and full load at 25°C	
		3.Accuracy :includes setting error , linear adjustment rate and load adjustment rate .	
		4. The output power is reduced when the input voltage is less than 200VAC.	

# TCX-400W 12V

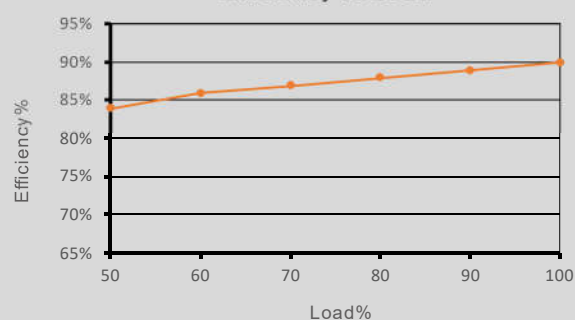


Efficiency vs Load



TCX-12V 400W

Efficiency vs Load

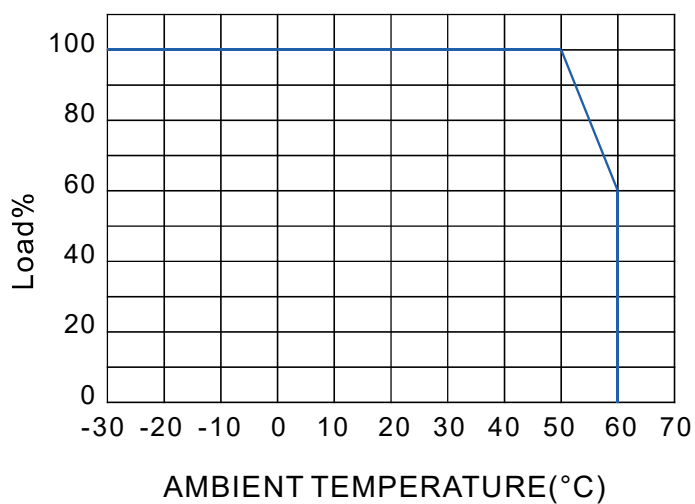


TCX-24V 400W

## Packaging Information

DIMENSION	225*58*30(LxWxH)
PACKING	231*62*34(LxWxH)
PCS/CTN	60pcs
CARTON SIZE	510*320*400(LxWxH)
WEIGHT	385g±10g/PCS

## Temperature load curve



230Vac

