



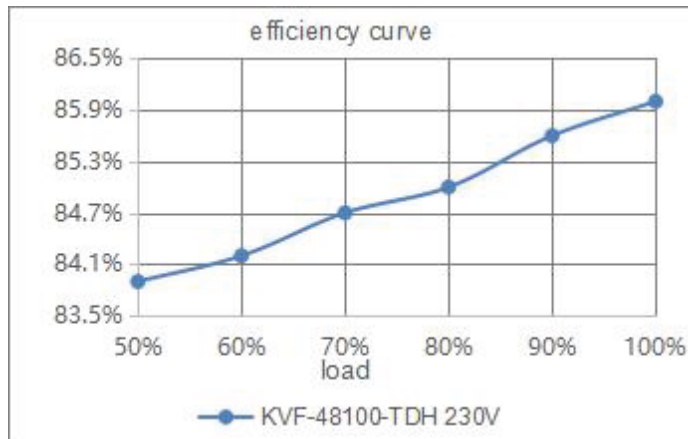
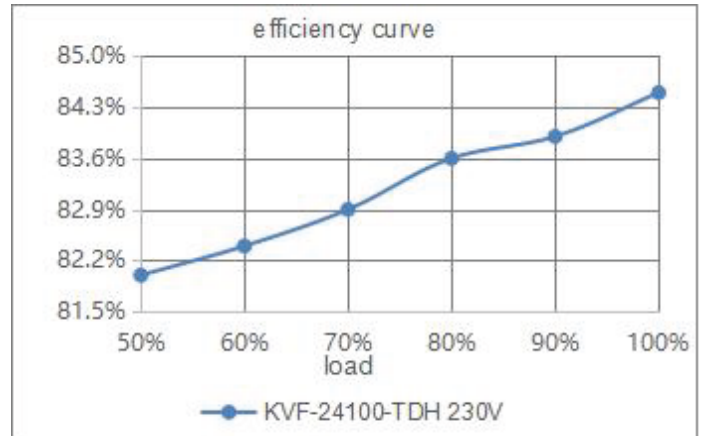
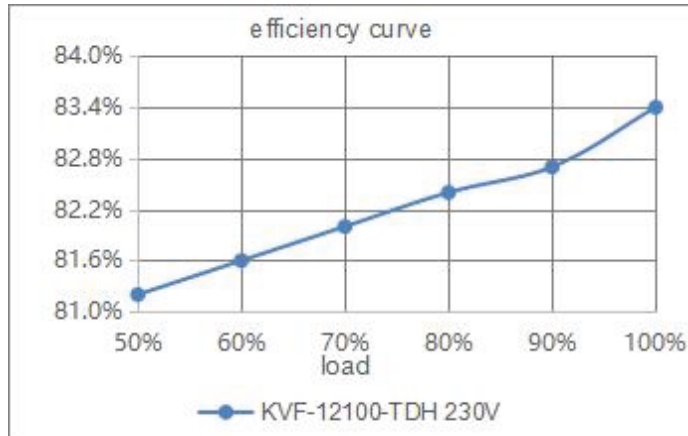
■ Features

Output:	Constant Voltage
Range:	200-240VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 85%
Protections:	Short circuit/ over load/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	IP66
Dimming function:	Phase dimming: work with leading edge, MLV and trailing edge, ELV, TRIAC dimmers.
Dimming range:	0-100%
Application:	Suitable for the application of LED lighting
Warranty:	5 years warranty

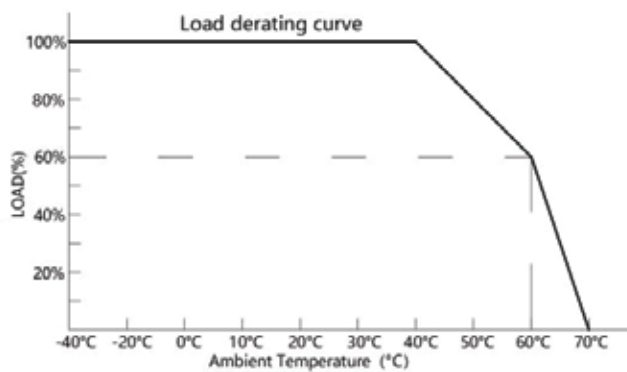
■ Specification

Model		SC-100-12	SC-100-24	SC-100-48
Certificate		TUV / SAA / CCC / CE / CB / RoHS / Reach		
Output	DC Voltage	12V	24V	48V
	Voltage Tolerance	±0.5V		
	Voltage Regulation	±0.5%		
	Rated Current	8.33A	4.16A	2.08A
	Rated Power	100W		
	Load Regulation	≤2%	≤1%	
Input	Voltage Range	200-240VAC		
	Frequency Range	47 - 63Hz		
	THD(Typ.)@ Full Load	≤20%@200VAC @230VAC @240VAC		
	Efficiency(Typ.)@ Full Load	83%@230VAC	84%@230VAC	85%@230VAC
	AC Current (Max.)	0.8A		
	Inrush Current(Typ.)	56A,280us@230VAC		
	Leakage Current	<0.5mA		
Protection	Short Circuit	Hiccup mode, re-power on to recover after fault condition removed		
	Over Load	≤120% Hiccup mode, recovers automatically after fault condition is removed		
	Over Temperature	Shell surface temp.100°C±10°C shut down o/p voltage, automatically recover after the temperature drops.		
Environment	Working TEMP.	-40~+60°C(see below derating curve)		
	Working Humidity	20 - 95% RH non-condensing		
	Storage TEM.,Humidity	-40 - +80°C, 10 - 95% RH non-condensing		
	TEMP.coefficient	±0.03%/°C (0 - 50°C)		
	Vibration	10~500Hz, 5G 12min/1 cycle, period for 72min. each along X,Y,Z axes		
Safety&EMC	Safety standards	EN/IEC-61347, EN/IEC-60598 Approved, AS/NZS-61347/60598 Approved		
	Withstand voltage	I/P-O/P:3.75KVAC(EU) I/P-FG 1.5KVAC(EU) I/P-FG: 0.5KVAC(EU)		
	Isolation resistance	I/P-O/P:100MΩ/ 500VDC / 25°C / 70%RH		
	EMC Emission	Compliance to EN/IEC-55015, EN/IEC-61000, AS CISPR 15:2017		
Others	Net Weight	1.05kg		
	Dimension	230*70*43mm(L*W*H)		
	Packing	340*270*175mm 10pcs/CTN		
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Tolerance: includes set up tolerance and load regulation.			

■ Efficiency Curve (Efficiency vs Output load)

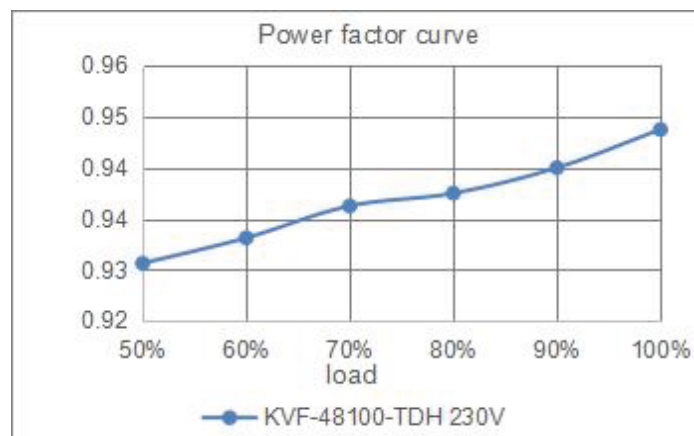
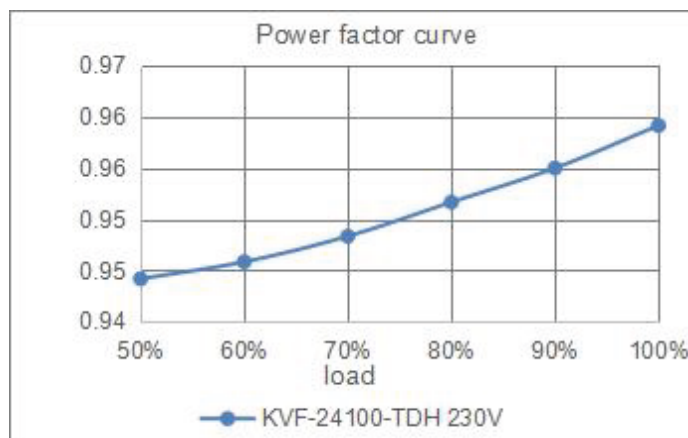
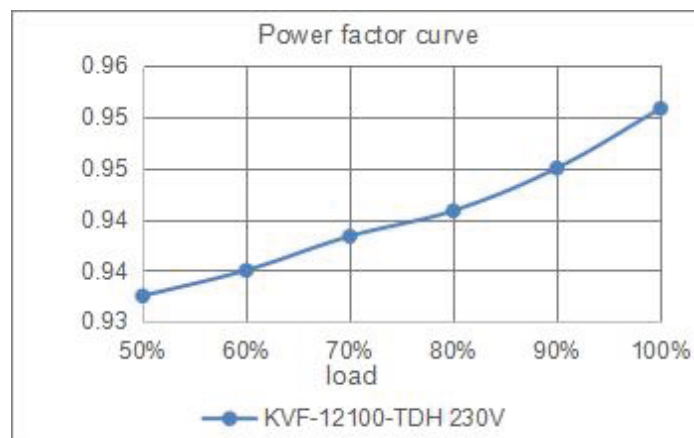


■ Derating Curve (Output load vs TEMP.)

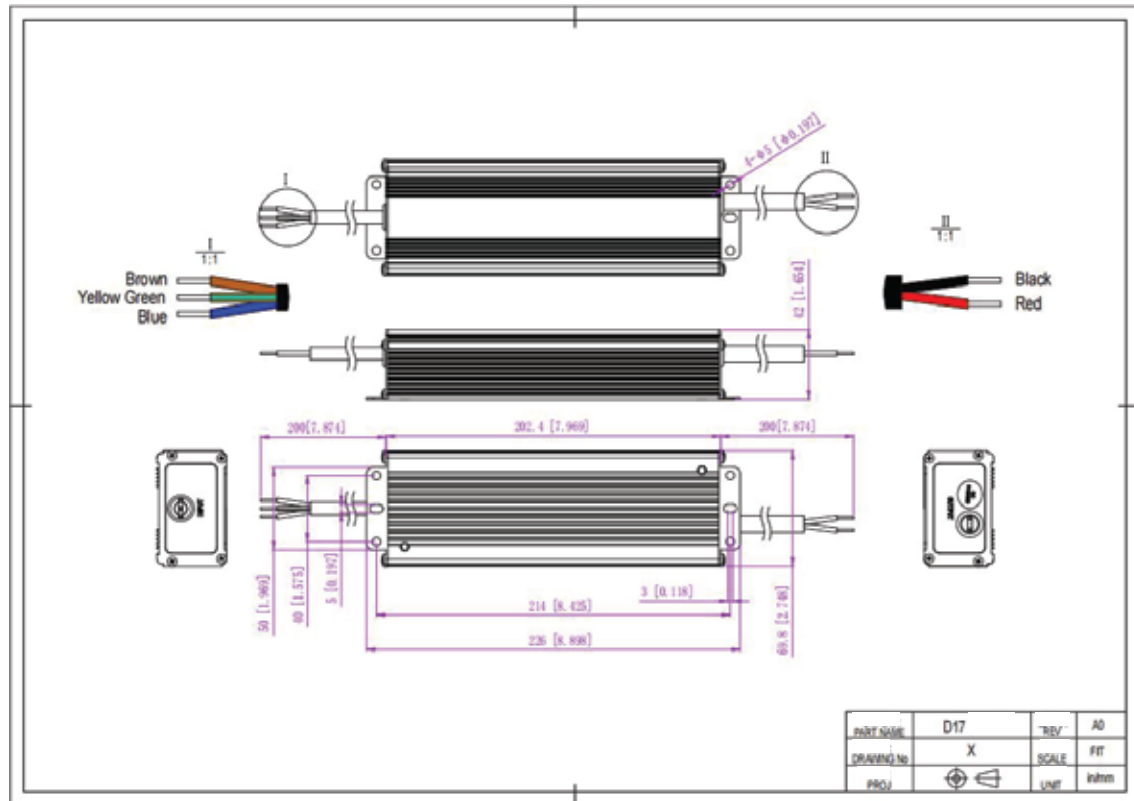


※ To extend their life, please refer to the Derating Curve and derate according to the temperature.

■ **Power Factor Curve**



■ Mechanical Specification



12 & 24V & 48V Version

1. Input cable 3C*1.0mm, the Green cable to (FG, Brown cable to L, and Blue cable to N of Mains AC.
2. Output cable 2C*1.5mm², Red is output (+) to LED Positive side (+), Black cable (-) to LED negative side (-).

Warm tips:

Any other requests for cable, we can customized.

■ Dimming Operation and Connecting Diagram

TRIAC/Phase cut dimming

1. The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase /Triac dimmer or lighting system.
2. Working with leading edge, MLV and trailing edge, ELV, TRIAC dimmers or light system.
3. Min. loading is about 10%.
4. Please try to use dimmers with power at least 1.5 times as the output power of the driver.

Triac



Triac



■ Instruction

1. This driver should be installed by qualified and professional person.
2. Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
3. Ensure that wiring is correct before test in order to avoid light and power supply damage.
4. If driver Cannot work normally, don't maintain privately.