Triac / Phase-cut dimmable LED Driver Constant Current-DIP Adjustment KIF-TDH Series 40W

KIF-TDH Series 40W KIF-TDH 40W

Whole Family: KIF-XXX-TDH [10W 20W 40W 60W]

Features

Output:	Constant Current
NFC function:	Adjust output current by NFC
Range:	200-240VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 80%
Protections:	Short circuit/ over load/over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	IP20
Dimming function:	Triac/phase cut dimming: Work with leading or trailing edge Triac dimmer
Dimming range:	1-100%
Application:	Suitable for the application of indoor LED lighting
Warranty:	5 years warranty

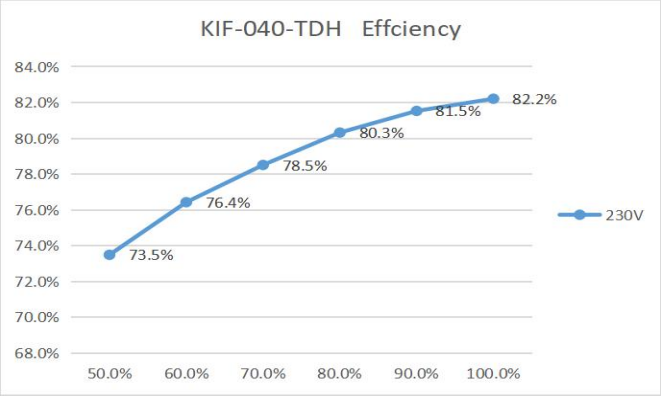
Triac / Phase-cut dimmable LED Driver Constant Current-DIP Adjustment KIF-TDH Series 40W

Specification

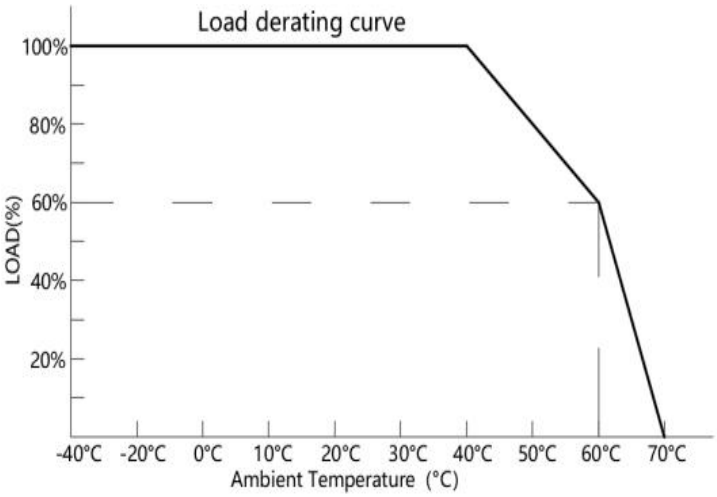
T ON ⊥ OFF

Model		KIF-040-TDH															
Output	Rated current (A)	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4
	DIP Code	⊥⊥⊥⊥		T⊥⊥⊥		⊥T⊥⊥		T⊥T⊥		⊥⊥⊥T		⊥T⊥T		⊥⊥TT		⊥TTT	
	DIP Code		T⊥⊥⊥		TT⊥⊥		T⊥T⊥		TTT⊥		T⊥⊥T		TT⊥T		T⊥TT		TTTT
	Current Tolerance	±5%															
	No-Load Voltage	75V max.															
	DC Voltage (V)	3-65							3-62	3-57	3-50	3-45	3-40	3-37	3-34	3-31	3-29
	Rated power (W)	19.5	22.8	26	29.3	32.5	35.8	39	40								
Input	Rated Voltage	200-240VAC															
	Rated Frequency	47-63HZ															
	Power Factor	0.93@230VAC 50Hz															
	THD(Typ.)	≤20%															
	Efficiency (Typ.)	80%@230VAC															
	AC Current (Max.)	0.29A															
	Inrush Current (Typ.)	15.6A,10.3uS@50%Ipeak@230VAC															
	Leakage current	<0.50mA															
Protection	Short Circuit	Constant current mode, recovers automatically after fault condition is removed															
	Over load	Hiccup mode, recovers automatically after fault condition is removed															
	Over temperature	Ambient temp. over 50℃±5℃, output current will be reduced to 50%; Ambient temp. over 60℃±5℃, output current will be reduced to 0%;Ambient temp. reduce to 45℃±5℃, recovers automatically .															
Environ-ment	Working TEMP.	-40-+60℃															
	Working Humidity	20-90%RH, non-condensing															
	Storage TEMP. Humidity	-40-+80℃,10-95%RH															
	TEMP. coefficient	±0.03%/℃ (0-50℃)															
	Vibration	10-500Hz, 2G 10min./1 cycle,period for 60min.each along X,Y,Z axes															
Safety & EMC	Safety standards	EN61347-1 EN61347-2-13(EU)															
	Withstand voltage	I/P-O/P:3.75KVAC(EU)															
	Isolation resistance	I/P-O/P:100MΩ / 500VDC / 25℃ / 70%RH															
	EMC Emission	EN55015 EN61000-3-2 EN61000-3-3															
Others	Net Weight	0.225Kg															
	Dimension	171.5*54*20mm(L*W*H)															
	packing	250*190*135mm 20PCS/CTN 5KG/CTN															
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃of ambient temperature. 2. Tolerance: includes set us tolerance, line regulation and load regulation.																

Efficiency Curve (efficiency vs output load)

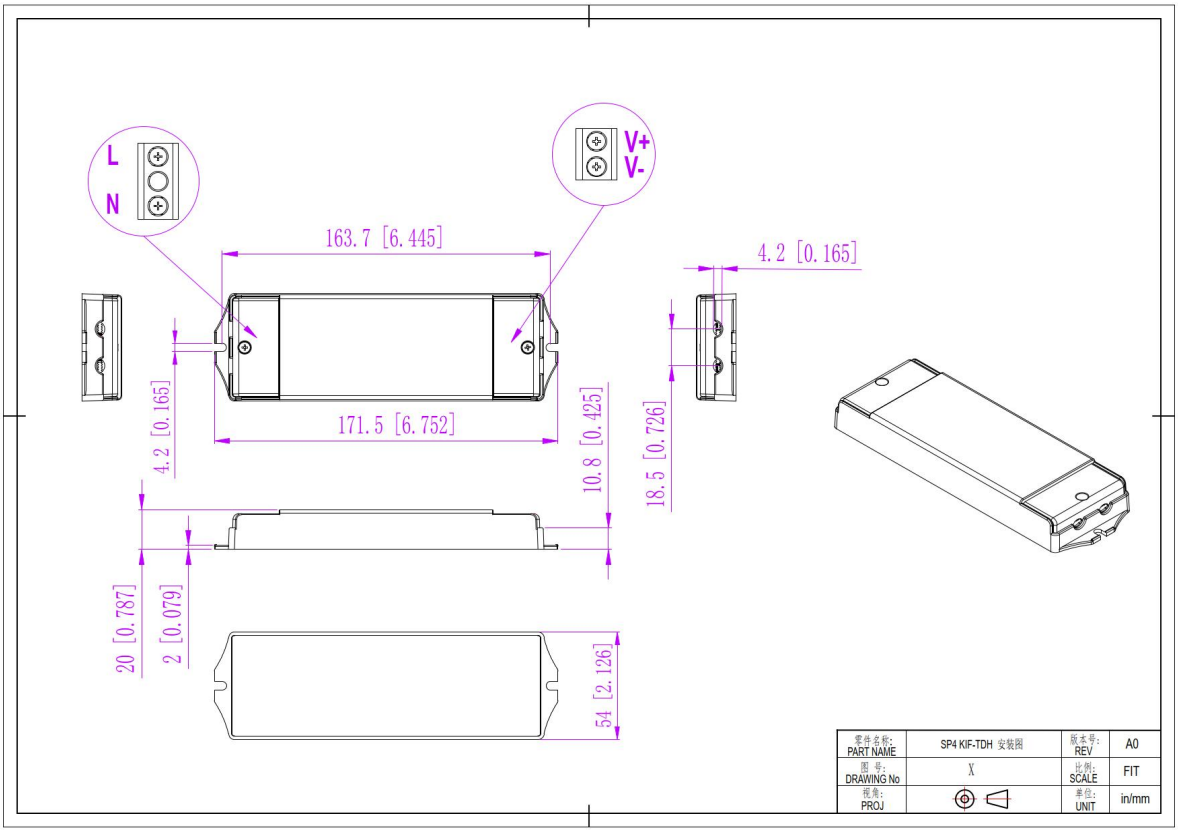


Derating Curve (output load vs TEMP.)



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

Mechanical Specification



1. Input with ULO-TB51-126 terminals 3P: Live Wire AC (L), Neutral Wire AC(N).
2. Output LED SEC with ULO-TB51-126 terminals 2P: output Positive (LED+), output negative (LED-). Connected to LED Lamps.
3. Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

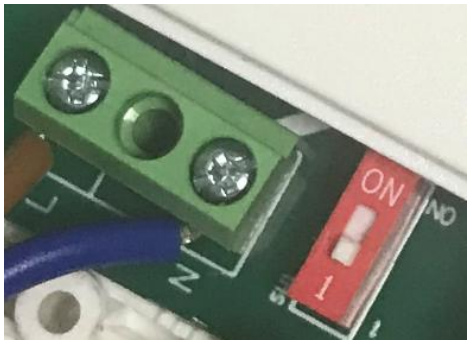
Warm tips:

1. Suggested wire diameter: Input 0.75-2mm²; Output:0.5-2mm².
2. Any other requests for, we can customized.

Dimming Operation and Connecting Diagram

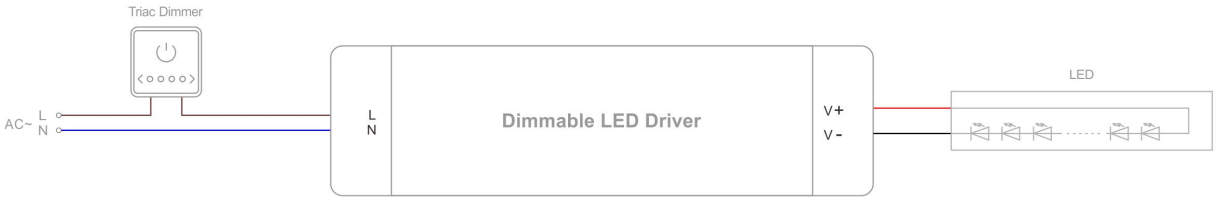
TRIAC/Phase cut dimming

1. Output constant current level can be adjusted through input terminal of the AC phase line(L) by connection a Triac dimmer.
2. Usually matching with leading edge and trailing edge both. At input area of KIF-TDH series: ON key for leading edge; 1 key for trailing edge(see below picture).

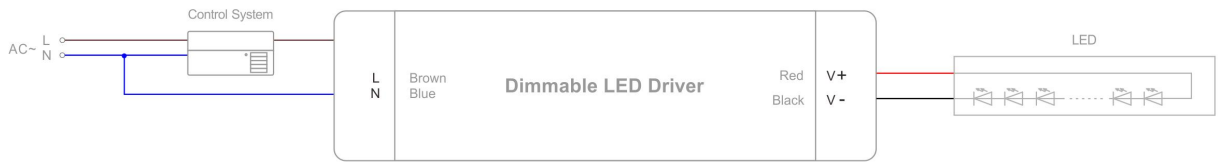


3. please try to use the small power dimmer, have access to a wider dimming range, high-power dimmer is difficult to achieve the output current to zero.
4. please try to use dimmers with power at least 2 times as the output power of the driver.

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.

Have any questions, please contact Zhuhai Shengchang.
Please visit our website or contact us for more information! www.scpower.net.cn/en