



### ■ Features

- 220VAC only ( up to 265VAC) models available
- Built-in active PFC function
- Constant current design
- Protections: Short circuit,open circuit,over-load,over-current
- Through EMC, safety testing, but with the whole lamp safety certification.
- IP20 design
- No load power consumption <0.5W
- High reliability, low cost
- 3 years warranty

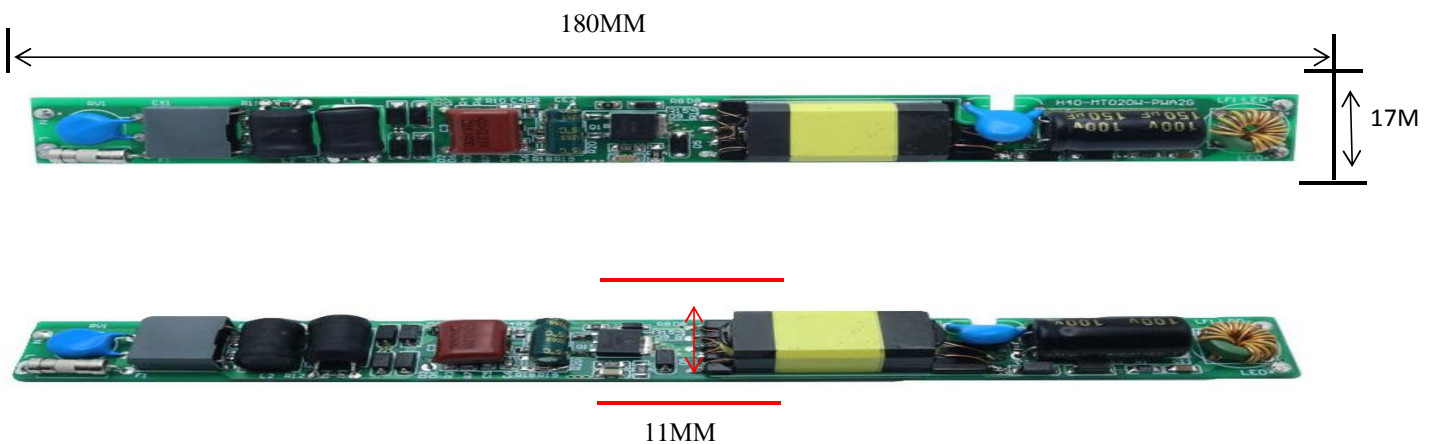
### ■ Applications

- T8/T5 LED tube

### ■ Description

Hot sale isolated led tube driver 18w 20w 24v-48v 450mA for T8/T10 tube, 3 years warranty. The efficiency of this power supply is as high as 88-90%. This is one of the new designs, which is loved by many customers as soon as it is sold becomes one of the best-selling products this year.

### ■ Mechanical Specification



**SPECIFICATION SHEET**

<b>MODEL</b>		HAD020CXI-T8					
<b>OUTPUT</b>	<b>RATED CURRENT</b>	450mA					
	<b>OPERATING VOLTAGE RANGE Note.5</b>	24-36V					
	<b>CURRENT ACCURACY Note.3</b>						
	<b>RATED POWER</b>	18W					
	<b>RIPPLE &amp; NOISE (max.) Note.2</b>						
	<b>NO LOAD OUTPUT VOLTAGE (max.)</b>	No-load overvoltage protection					
	<b>SETUP TIME</b>	500ms / 220VAC at full load;					
<b>INPUT</b>	<b>VOLTAGE RANGE Note.4</b>	100~ 277VAC					
	<b>FREQUENCY RANGE</b>	50/60Hz					
	<b>POWER FACTOR (Typ.)</b>	PF $\geq$ 0.95/220VAC,PF>0.95/265VAC(at full load)(Please refer to "Power Factor Characteristic" curve)					
	<b>TOTAL HARMONIC DISTORTION</b>	THD< 20% when output loading $\leq$ 70% ;THD< 25% when full output loading					
	<b>EFFICIENCY (Typ.)</b>	88%					
	<b>AC CURRENT (Typ.)</b>	0.15A/220VAC					
	<b>INRUSH CURRENT(Typ.)</b>	COLD START 10A (twidth=75 $\mu$ s measured at 50% Ipeak ) at 220VAC					
	<b>MAX. No. of PSUs on 16A CIRCUIT BREAKER</b>						
<b>PROTECTION</b>	<b>SHORT CIRCUIT</b>	Hiccup mode, recovers automatically after fault condition is removed.					
	<b>OVER TEMPERATURE</b>	Hiccup mode, recovers automatically after temperature goes down.					
<b>ENVIRONMENT</b>	<b>WORKING TEMP.</b>	-30 ~ +40 $^{\circ}$ C					
	<b>WORKING HUMIDITY</b>	20 ~ 70% RH non-condensing					
	<b>STORAGE TEMP., HUMIDITY</b>	-40 ~ +80 $^{\circ}$ C, 10 ~ 95% RH					
	<b>TEMP. COEFFICIENT</b>	N/A					
	<b>VIBRATION</b>	N/A					
<b>SAFETY &amp; EMC</b>	<b>SAFETY STANDARDS</b>						
	<b>WITHSTAND VOLTAGE</b>	N/A					
	<b>ISOLATION RESISTANCE</b>	N/A					
	<b>EMC EMISSION</b>	Compliance to EN55015, GB17743, GB17625.1,EN61000-3-2 Class C ( $\geq$ 75% load) ; EN61000-3-3					
	<b>EMC IMMUNITY</b>	Compliance to EN61547, light industry level, criteria B (Surge 2KV)					
<b>OTHERS</b>	<b>MTBF</b>	N/A					
	<b>DIMENSION</b>	180*17*11mm (L*W*H)					
	<b>PACKING</b>						
<b>NOTE</b>	<p>1. All parameters NOT specially mentioned are measured at 220VAC input, rated load and 25<math>^{\circ}</math>C of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1<math>\mu</math>f &amp; 47<math>\mu</math>f parallel capacitor.</p> <p>3. Please see AC input voltage drop vs. output current characteristics table.</p> <p>4. Derating may be needed under low input voltage, please check the static characteristic for more details.</p> <p>5. Constant current operation region is within 50% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.</p> <p>6. 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> <p>7. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.</p>						