

# Datasheet

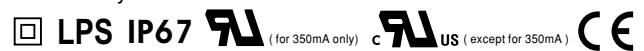
Item no. 1591817

## 20W Single Output Switching Power Supply



### ■ Features :

- Constant current design
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Over voltage
- Cooling by free air convection
- Small and compact size
- Fully encapsulated with IP67 level (Note.7)
- Fully isolated plastic case
- Class II power unit, no FG
- Pass LPS
- Suitable for LED lighting and moving sign applications
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty



### SPECIFICATION

<b>MODEL</b>		TRU-20W
<b>OUTPUT</b>	<b>RATED CURRENT</b>	700mA
	<b>DC VOLTAGE RANGE</b>	9 ~ 30V
	<b>RATED POWER</b>	21W
	<b>RIPPLE &amp; NOISE (max.)</b> Note.2	200mVp-p
	<b>VOLTAGE TOLERANCE</b> Note.3	±5.0%
	<b>CURRENT ACCURACY</b>	±5.0%
	<b>LINE REGULATION</b>	±1.0%
	<b>LOAD REGULATION</b>	±2.0%
	<b>SETUP, RISE TIME</b> Note.6	500ms, 250ms / 230VAC 500ms, 250ms / 115VAC at full load
<b>HOLD UP TIME (Typ.)</b>	50ms/230VAC 16ms/115VAC at full load	
<b>INPUT</b>	<b>VOLTAGE RANGE</b> Note.4	90 ~ 264VAC 127 ~ 370VDC
	<b>FREQUENCY RANGE</b>	47 ~ 63Hz
	<b>EFFICIENCY (Typ.)</b>	83%
	<b>AC CURRENT (Typ.)</b>	0.55A/115VAC 0.35A/230VAC
	<b>INRUSH CURRENT(max.)</b>	COLD START 35A/115VAC 70A/230VAC
	<b>LEAKAGE CURRENT</b>	0.25mA / 240VAC
<b>PROTECTION</b>	<b>OVER VOLTAGE</b>	31.5 ~ 40.5V Protection type : Shut off o/p voltage, clamping by zener diode
	<b>WORKING TEMP.</b>	-30~ +70°C (Refer to "Derating Curve")
<b>ENVIRONMENT</b>	<b>WORKING HUMIDITY</b>	20 ~ 90% RH non-condensing
	<b>STORAGE TEMP., HUMIDITY</b>	-40 ~ +80°C, 10 ~ 95% RH
	<b>TEMP. COEFFICIENT</b>	±0.03%/°C (0 ~ 50°C)
	<b>VIBRATION</b>	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes
<b>SAFETY &amp; EMC</b>	<b>SAFETY STANDARDS</b>	UL879, UL1310 Class 2, CAN/CSA C22.2 No. 223-M91(except for LPC-20-350), IP67 approved ; design refer to TUV EN60950-1, EN61347-2-13
	<b>WITHSTAND VOLTAGE</b>	I/P-O/P:3KVAC
	<b>ISOLATION RESISTANCE</b>	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH
	<b>EMC EMISSION</b>	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3
	<b>EMC IMMUNITY</b>	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A
<b>OTHERS</b>	<b>MTBF</b>	786.5Khrs min. MIL-HDBK-217F (25°C)
	<b>DIMENSION</b>	118*35*26mm (L*W*H)
	<b>PACKING</b>	0.22Kg; 60pcs/14.2Kg/0.62CUFT
<b>NOTE</b>	<ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>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.</li> <li>3. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>4. Derating may be needed under low input voltage. Please check the static characteristics for more details.</li> <li>5. 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.</li> <li>6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.</li> <li>7. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.</li> </ol>	

