



### FEATURES

- IEC 320/C14 or C8 AC Inlet
- GaN FET Based Compact Design
- 12.5W/in<sup>3</sup> High Power Density
- 91-93% Average Efficiency
- Thermal Protection
- Compliant with DoE Level VI
- IEC/EN/UL 62368-1 & 60950-1 Approved

### INPUT SPECIFICATIONS

Input Voltage Range ..... 100-240VAC  
 Input Frequency ..... 50-60 Hz  
 Input Current ..... 2.4A max. @ 100 VAC/240 VAC  
 Inrush Current ..... 100A max. @ Full Load,  
 at 25°C cold start  
 Touch Current ..... 100 µA max. @ 264 VAC  
 Leakage Current ..... 250 µA max. @ 264 VAC (Class I)

### OUTPUT SPECIFICATIONS

Output Power Ratings ..... See models list  
 No Load Power Cons. .... 0.15W typical  
 Line Regulation ..... ±0.5% max.  
 Load Regulation ..... ±5% max.  
 Ripple and Noise\* ..... 1% Vp-p max. of output @ full load  
 Over Voltage Protection ..... Set @ 110-150%; Latch off  
 Over Current Protection ..... Set @ 150-180%; Auto-recovery  
 Short Circuit Protection ..... Shut down; Auto recovery  
 Thermal Shutdown ..... Protected to over-temp. conditions  
 Temperature Coefficient ..... ±0.04%/°C max.  
 Transient Response ..... 0.5 ms for 50% load change typical

\* Measured with 20MHz bandwidth at nominal line voltage and full load, with a 47µF low ESR electrolytic capacitor in parallel with a 0.1µF multilayer capacitor in parallel across the output.

### GENERAL SPECIFICATIONS

Power Factor ..... >0.94 typical @ full load  
 Efficiency ..... 90% min. @ full load  
 Switching Frequency ..... 250 kHz.  
 Hold-Up Time ..... 10 ms min. @ full load  
 Operating Altitude ..... 5,000 meters max.  
 Operating Temperature ..... 0°C to +70°C  
 Derating ..... Derate from 100% at +40°C  
 linearly to 50% at +70°C except 50%  
 at +60°C for 12V  
 Storage Temperature ..... -20°C to +80°C  
 Operating Humidity ..... 20 to 80% non-condensing  
 Storage Humidity ..... 10 to 90% non-condensing  
 Withstand Voltage ..... 3,000 VAC, input to output  
 MTBF ..... 300,000 hours minimum at full load,  
 25°C ambient, calculated per  
 Telcordia SR-332



### MODELS LIST

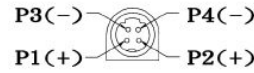
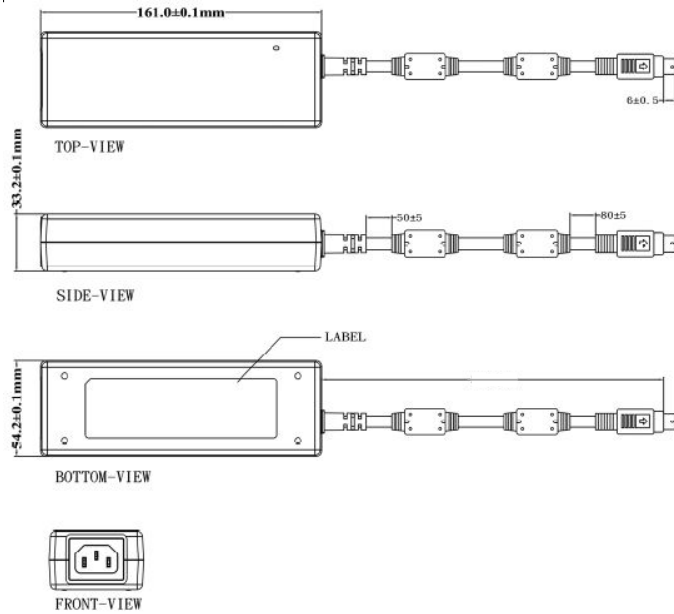
Product No. <sup>(1)</sup>	Output Voltage	Maximum Output Current	Maximum Output Power
<b>TTG200-12</b>	12V	15A	180W
<b>TTG200-18</b>	18V	11.1A	200W
<b>TTG200-19</b>	19V	10.5A	200W
<b>TTG200-19.5</b>	19.5V	10.2A	200W
<b>TTG200-20</b>	20V	10A	200W
<b>TTG200-24</b>	24V	8.3A	200W
<b>TTG200-48</b>	48V	4.2A	200W
<b>TTG200-56</b>	56V	3.6A	200W

Note:  
 1) Add suffix "-4" to the P/N for models furnished with IEC 320/C14 AC inlet, "-8" for C8 inlet, e.g. TTG200-12-4, TTG200-24-8, etc.

### STANDARDS & COMPLIANCE

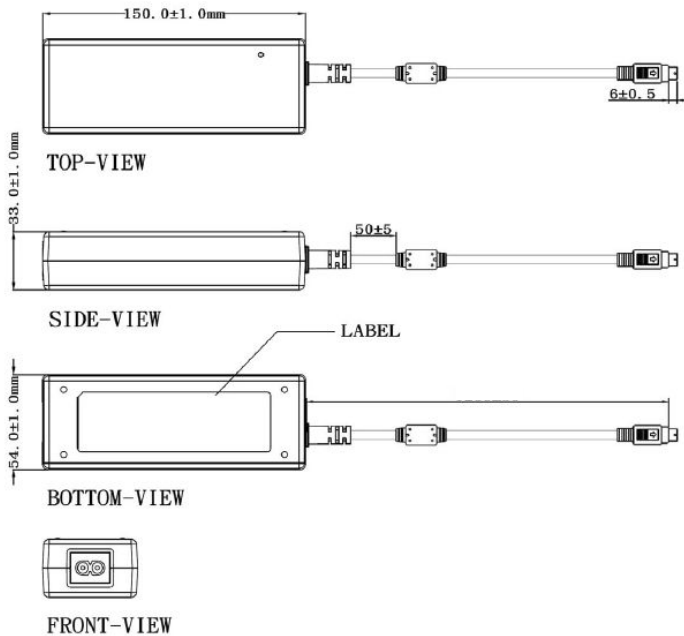
EN 55032, CISPR 32 ..... Class B, conducted & radiated  
 FCC, VCCI ..... Class B, conducted & radiated  
 EN 61000-3-2 ..... Harmonic distortion, Class A & D  
 EN 61000-3-3 ..... Line flicker  
 EN 61000-4-2 ..... ESD, ±8 KV air and ±4 KV contact  
 EN 61000-4-3 ..... Radiated immunity, 3V/m  
 EN 61000-4-4 ..... Fast transient/burst, ±1 KV  
 EN 61000-4-5 ..... Surge, ±1 KV diff., ±2 KV com.  
 EN 61000-4-6 ..... Conducted immunity, 3 Vrms  
 EN 61000-4-8 ..... Magnetic field immunity, 1A/m  
 EN 61000-4-11 ..... Voltage dip immunity,  
 30% reduction for 500ms,  
 >95% reduction for 10ms  
 Safety Standards ..... IEC/EN/UL 62368-1:2014,  
 CAN/CSA C22.2 No. 62368-1-14,  
 IEC/EN/UL 60950-1 (2nd edition)  
 Agency Approvals ..... UL, cUL, TUV, PSE, CE, CB  
 Other Compliance ..... RoHS, Energy Star 2.0, ErP Stage 2,  
 DoE Level VI, CoC Tier 2, NRCAN &  
 GEMS Level VI

### MECHANICAL SPECIFICATIONS



OUTPUT CONNECTOR	
PIN	CONNECTION
1	+V
2	+V
3	RETURN
4	RETURN
SHELL	AC GND/**NC

\*Shell is NC on C8 inlet models.



**Notes:**

1. Unit: mm
2. Weight: 500 grams approx.
3. Standard output connector: Kycon P/N KPPX-4P or equivalent, mating with Kycon P/N KPJX-4S-S or equivalent
4. Length of output cable: 1200mm for 12V, 1500mm for 18-56V
5. Contact TRUMPower for non-standard models.