Total Power International, Inc.

UNIVERSAL AC INPUT HARMONIC CORRECTION AC-DC 19" COMPATIBLE EUROCARD MULTI-OUTPUT 100 WATTS SWITCHING MODE POWER SUPPLIES TPPU100 SERIES



FEATURES:

- **ACCOMMODATE UNIVERSAL AC SOURCES**
- **MEET IEC 61000-3-2 HARMONIC CORRECTION**
- **MEET UNIVERSAL SAFETY STANDARDS**
- **19" COMPATIBLE EUROCARD FORMAT**
- **EMI MEET EN 55022 & FCC CLASS B**
- **CE MARKING COMPLIANCE**
- **3U x 10HP x 160MM VMEbus STANDARD**

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typ. 90-264Vac with PFC.
Input Connector: DIN 41612 at rear.
Input Frequency: 47-63Hz.
Inrush Current: Typ. <30.6A @ 230Vac.
Input Current: 1.0A @ 115Vac, 0.5A @ 230Vac.
Dielectric Withstand: Meet IEC 60950-1.
EMI: Meet EN 55022 & FCC B.
Power Factor Correction: Meet Harmonic Correction IEC 61000-3-2 .PF typ. 0.97-0.98.
Power Indicator: Green LED.
Power OK Signal: Installed.
Logic Inhibit: Installed.
Hold-up Time: 20mS @ 115Vac & 230Vac.
Earth Leakage: Less than 0.40mA @ 230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Connector: DIN 41612 at rear.
Line Regulation: Typ. 0.5%.
Load Regulation: Main VO1 typ. ±1-2.0%.
Aux.VO2 typ. ±2.0% (Mag. Amp.)
Aux.VO3 typ. ±3.0% (PR).
Noise & Ripple: Typ. 1% peak to peak.
OVP: Built-in at main VO1.
Adjustability: Available at VO1 & VO2.
Overload Protection (OLP): Fully protected against output overload and short circuit. Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 73-76%.
Switching Frequency: Fixed frequency 83K Hz.
Circuit Topology: Fixed frequency forward circuit.
Transient Response: Output voltage returns in less than 3mS following a 25% load change.
Safety Standard: IEC 60950-1/UL 60950-1 Class I.
Power Density: 2.0 Watt / Cubic Inch.
Operating Temperature: 0 to +50°C full load. Derates from +50 to +70°C by derating 2%/°C.
Storage Temperature: -25 to +85°C.
Temperature Coefficient: Typ. 0.04% /°C.
Cooling: Forced air flow is recommended for Ta > +50°C full load operation.
Construction format: 10HP(TE) X3UX160mm VMEbus standard Eurocard format.

Note: Due to requests in market and advances in technology, specifications subject to change without notification.

In application

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OUTPUT VOLTAGE / CURRENT RATINGS CHART

SINGLE OUTPUT

MODEL NO.	MAIN VO1 ★@#	
	Typ.	Volt.
TPPU100-S033250	25.0A	**3.3V**
TPPU100-S050200 (TPPU100-10)	20.0A	**5.0V**
TPPU100-S120080	8.0A	**12.0V**
TPPU100-S150075	7.5A	**15.0V**
TPPU100-S240042 (TPPU100-13)	4.2A	**24.0V**
TPPU100-S280036	3.6A	**28.0V**
TPPU100-S360028	2.8A	**36.0V**
TPPU100-S480021	2.1A	**48.0V**

DUAL OUTPUT

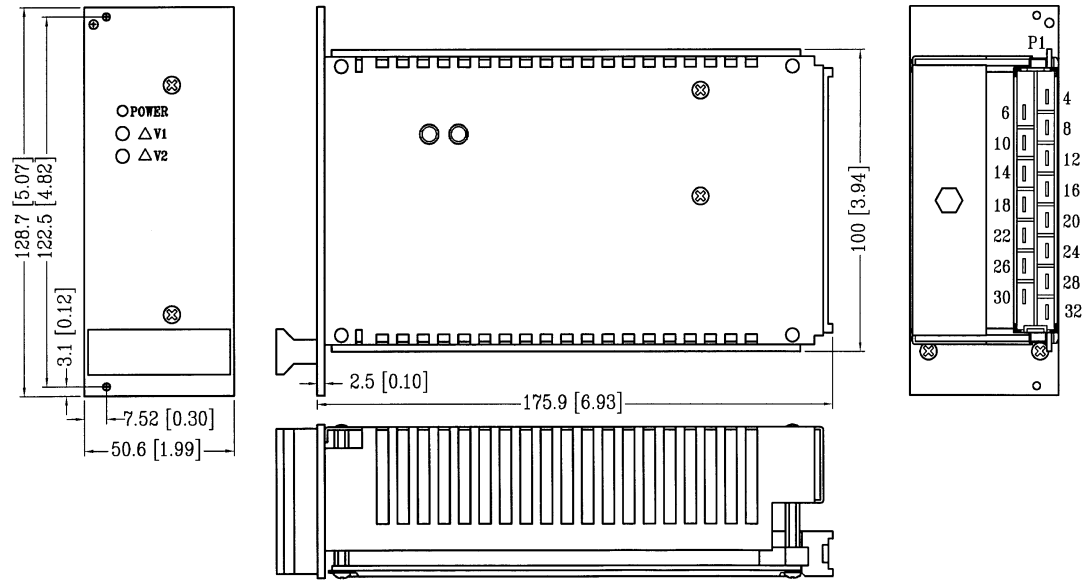
MODEL NO.	MAIN VO1 ★@◇		AUX. VO2 @▲◇	
	Typ.	Volt.	Typ.	Volt.
TPPU100-D050I (TPPU100-20)	8.0A	**5.0V**	5.0A	**12.0V**
TPPU100-D120I (TPPU100-21)	4.2A	**12.0V**	4.2A	**12.0V**
TPPU100-D050K	8.0A	**5.0V**	4.0A	**15.0V**
TPPU100-D150K (TPPU100-23)	3.4A	**15.0V**	3.4A	**15.0V**
TPPU100-D033I	11.0A	**3.3V**	5.0A	**12.0V**
TPPU100-D033K	11.0A	**3.3V**	4.0A	**15.0V**

TRIPLE OUTPUT

MODEL NO.	MAIN VO1 ★@◇		AUX. VO2 @▲◇		AUX. VO3 ●◇	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
TPPU100-T050IE	7.0A	**5.0V**	5.0A	**12.0V**	1.0A	**5.0V**
TPPU100-T050KK (TPPU100-31)	7.0A	**5.0V**	4.0A	**15.0V**	0.4A	**15.0V**
TPPU100-T050II (TPPU100-32)	7.0A	**5.0V**	5.0A	**12.0V**	0.5A	**12.0V**
TPPU100-T033EI	11.0A	**3.3V**	9.0A	**5.0V**	1.0A	**12.0V**
TPPU100-T033KK	10.0A	**3.3V**	4.0A	**15.0V**	0.6A	**15.0V**
TPPU100-T033II	10.0A	**3.3V**	5.0A	**12.0V**	0.8A	**12.0V**

Symbol: "★" OVP built-in. "@" Adjustable. "#" Remote sensing. "▲" Magnetic Amplifier.
"◇" Floating (or isolated) output. "●" Installed with Post Regulator.

MECHANICAL DIMENSIONS: MM [INCHES] **WEIGHT:** 920.0g (32.5 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

	AC INPUT			SINGLE OUTPUT					DUAL OUTPUT					TRIPLE OUTPUT							Status/ Control	
ASSIGNMENT	AC-L	AC-N	AC-G	+VO1	+S	-VO1	-S	NC	+VO1	-VO1	+VO2	-VO2	NC	+VO1	-VO1	+VO2	-VO2	+VO3	-VO3	NC	Log. Inh.	P.Ok
CNTR & Pin#	28	30	32	4,6	8	12,14	10	16,18, 24,26	4	6	8	10	12,14,16 18,24,26	4,6	8,10	12	14	16	18	24,26	20	22

Mating connector: DIN 41612-H15 Female