



Features:

- Universal AC input / Full range
- Built-in active PFC function, PF>0.94
- Protections: Short circuit / Overload / Over voltage
- Forced air cooling by built-in DC fan
- Fixed switching frequency at 100KHz
- 3 years warranty

SPECIFICATION



DC VOLTAGE 5V 12V -5V 5V 12V -12V 5V 15V -15V 5V 24V 12V RATED CURRENT 15A 6A 0.6A 15A 5.5A 0.6A 15A 4.5A 0.6A 15A 3A 0.6A CURRENT RANGE 2 ~ 20A 0.4 ~ 7A 0 ~ 1A 2 ~ 20A 0.4 ~ 6A 0 ~ 1A 2 ~ 20A 0.4 ~ 4A 0 ~ 1 RATED POWER 150W 148.2W 151.5W 154.2W RIPPLE & NOISE (max.) Note.2 100mVp-p	MODEL		TP-150A			TP-150B			TP-150C			TP-150D			
NPTICETION RATED CURRENT 15A 6A 0.6A 15A 0.5A 0.6A 15A 0.6A		OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	
CURRENT RANGE 2 - 20A 0.4 - 7A 0 - 1A 2 - 20A 0.4 - 7A 0 - 1A 2 - 20A 0.4 - 6A 0 - 1A 2 - 20A 0.4 - 6A 0 - 1A 2 - 20A 0.4 - 6A 0 - 1A 2 - 20A 0.4 - 6A 0 - 1A 2 - 20A 0.4 - 6A 0 - 1A 2 - 20A 0.4 - 6A 0 - 1A 2 - 20A 0.4 - 6A 0 - 1A 2 - 20A 0.4 - 6A 0 - 1A	ОИТРИТ	DC VOLTAGE	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V	5V	24V	12V	
NATED POWER 150W 148.2W 148.2W 151.5W 154.2W 154.2W 150mVp-p 100mVp-p		RATED CURRENT	15A	6A	0.6A	15A	5.5A	0.6A	15A	4.5A	0.6A	15A	3A	0.6A	
NATED POWER 150W 150W 148.2W 151.5W 151.5W 154.2W 151.5W 150mVp-p 100mVp-p 10		CURRENT RANGE	2 ~ 20A	0.4 ~ 7A	0 ~ 1A	2 ~ 20A	0.4 ~ 7A	0 ~ 1A	2 ~ 20A	0.4 ~ 6A	0 ~ 1A	2 ~ 20A	0.4 ~ 4A	0 ~ 1A	
NUTLAGE AND ALL NUTLAGE AN															
VOLTAGE ADJ. RANGE															
VOLTAGE TOLERANCE Note.3 33.0% 18.0% 16.0% 13.0% 16.0% 13.0% 16.0% 13.0% 10.0% 11.0% 1		` ,												1.55	
LOAD REGULATION					±6.0%	±3.0%	±8.0%	±6.0%	±3.0%	+10,-6%	±6.0%	±3.0%	±8.0%	±6.0%	
SETUP, RISE TIME		LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
SETUP, RISE TIME		LOAD REGULATION	±3.0%	±6.0%	±4.0%	±3.0%	±6.0%	±4.0%	±3.0%	±6.0%	±4.0%	±3.0%	±6.0%	±4.0%	
NPUT FREQUENCY RANGE 90 - 264VAC 127 - 370VDC		SETUP, RISE TIME	800ms, 60												
VOLTAGE RANGE		•													
NPUTE POWER FACTOR (Typ.) PF>0.94/230VAC PF>0.98/115VAC at full load		, , , ,	90 ~ 264VAC 127 ~ 370VDC												
RFFICIENCY (Typ.) 75% 77% 77% 77% 78% 78% AC CURRENT (Typ.) 2.5A/115VAC 1.2A/230VAC INRUSH CURRENT (Typ.) COLD START ≤ 40A/230V LEAKAGE CURRENT <3.5mA/240VAC	INPUT	FREQUENCY RANGE	47 ~ 63Hz												
RFFICIENCY (Typ.) 75% 77% 77% 77% 78% 78% AC CURRENT (Typ.) 2.5A/115VAC 1.2A/230VAC INRUSH CURRENT (Typ.) COLD START ≤ 40A/230V LEAKAGE CURRENT <3.5mA/240VAC		POWER FACTOR (Typ.)	PF>0.94/2	230VAC	PF>0.98/	115VAC at	full load								
INRUSH CURRENT (Typ.) COLD START \$40A/230V			75%			77%			77%			78%			
LEAKAGE CURRENT <3.5mA / 240VAC		AC CURRENT (Typ.)	2.5A/115\												
OVERLOAD 105 - 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed 5.75 ~ 6.75 ∨ 0 n + 5∨ Protection type : Shut down o/p voltage, re-power on to recover 95°C±5°C (TSW1) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down 95°C±5°C (TSW1) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down 10 ~ +60°C (Refer to output load derating curve) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down 10 ~ +60°C (Refer to output load derating curve) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down 10 ~ +60°C (Refer to output load derating curve) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down 10 ~ 500°C (Refer to output load derating curve) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down 10 ~ 500°C (Refer to output load derating curve) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down 10 ~ 500°C (Refer to output load derating curve) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down 10 ~ 500°C (Refer to output load derating curve) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down 10 ~ 500°C (Refer to output load derating curve) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down 10 ~ 500°C (Refer to output load derating curve) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down 10 ~ 500°C (Refer to output load derating curve) 10 ~ 500°C (Refer to output load derating curve) 10 ~ 500°C (Refer to output load derating curve) 10 ~ 500°C (Refer to output load derating curve) 10 ~ 500°C (Refer to output load derating curve) 10 ~ 500°C (Refer to output load der		INRUSH CURRENT (Typ.)													
PROTECTION OVER VOLTAGE 5.75 ~ 6.75V on +5V Protection type : Shut down o/p voltage, re-power on to recover 95°C±5°C (TSW1) Protection type : Shut down o/p voltage, re-power on to recover WORKING TEMP. 4.0 ~ +60°C (Refer to output load derating curve) WORKING HUMIDITY 20 ~ 90% RH non-condensing STORAGE TEMP, HUMIDITY 10 ~ *85°C, 10 ~ 95% RH TEMP. COEFFICIENT 10 3%°C (0~50°C) VIBRATION 10 ~ 500Hz, 2G 10min./tcycle, 60min. each along X, Y, Z axes WITHSTAND VOLTAGE WP-O/P.3KVAC WP-FG:1.5KVAC O/P-FG:0.5KVAC 1min. SAFETY & EMC (Note 4) HARMONIC CURRENT Compliance to EN61000-3-2, 3 EMS IMMUNITY Compliance to EN61000-3-2, 3 EMS IMMUNITY Compliance to EN61000-3-2, 3, 45,68,811; ENV50204, EN55024, light industry level, criteria A MTBF 161.6K hrs min. MIL-HDBK-217F (25°C) DIMENSION 199°99°50mm (L'W'H) PACKING 0.9Kg: 20pcs/19Kg/1.28CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwith by using a 12° twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC clisc, please refer to "EMI testing of component power supplies."		LEAKAGE CURRENT	<3.5mA/	_											
PROTECTION OVER YOLTAGE OVER TEMPERATURE(OPTION) OVER TEMPERATURE(O	PROTECTION	OVERLOAD													
Protection type: Shut down o/p voltage, re-power on to recover OVER TEMPERATURE(OPTION) Protection type: Shut down o/p voltage, recovers automatically after temperature goes down WORKING TEMP10 ~ +60°C (Refer to output load derating curve) WORKING HUMIDITY -20 ~ 90°K RH non-condensing STORAGE TEMP, HUMIDITY -20 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT - ±0.03%/°C (0-50°C) VIBRATION -10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes SAFETY & EMC (Note 4) EMC (Note 4) HARMONIC CURRENT - WILLIAM COMPILIAN COMPIL															
OVER TEMPERATURE(OPTION) Protection type: Shut down o/p voltage, re-power on to recover 95℃ ±5℃ (TSW1) Protection type: Shut down o/p voltage, recovers automatically after temperature goes down WORKING TEMP.		OVER VOLTAGE													
OVER TEMPERATURE(OPTION) Protection type: Shut down o/p voltage, recovers automatically after temperature goes down WORKING TEMP. -10 ~ +60°C (Refer to output load derating curve) WORKING HUMIDITY 20 ~ 90% RH non-condensing STORAGE TEMP., HUMIDITY -20 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0~50°C) VIBRATION 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes SAFETY STANDARDS UL60950-1, TUV EN60950-1 approved WITHSTAND VOLTAGE I/P-O/P;3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC 1min. ISOLATION RESISTANCE EMI CONDUCTION & RADIATION Compliance to EN55022 (CISPR22) Class B HARMONIC CURRENT Compliance to EN61000-3-2,-3 EMS IMMUNITY Compliance to EN61000-3-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A MTBF 161.6K hrs min. MIL-HDBK-217F (25°C) DIMENSION 199*99*50mm (L*W*H) PACKING NOTE NOTE NOTE 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."															
WORKING TEMP10 ~ +60°C (Refer to output load derating curve) WORKING HUMIDITY 20 ~ 90% RH non-condensing STORAGE TEMP., HUMIDITY -20 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0~50°C) VIBRATION 10 ~ 500Hz, 26 10min./1cycle, 60min. each along X, Y, Z axes SAFETY \$ SAFETY \$ SAFETY STANDARDS UL60950-1, TUV EN60950-1 approved WITHSTAND VOLTAGE I/P-O/P, 3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC 1min. ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC (Note 4) HARMONIC CURRENT Compliance to EN55022 (CISPR22) Class B HARMONIC CURRENT Compliance to EN61000-3-2,-3 EMS IMMUNITY Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; ENV50204, EN55024, light industry level, criteria A MTBF 161.6K hrs min. MIL-HDBK-217F (25°C) DIMENSION 199°99°50mm (L*W*H) PACKING 0.9Kg; 20pcs/19Kg/1.28CUFT NOTE NOTE 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."		OVER TEMPERATURE(OPTION)	95°C ±5°C (TSW1)												
WORKING HUMIDITY 20 ~ 90% RH non-condensing STORAGE TEMP., HUMIDITY -20 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0-50°C) VIBRATION 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes SAFETY STANDARDS UL60950-1, TUV EN60950-1 approved WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC 1min. SOLATION RESISTANCE I/P-O/P; I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMI CONDUCTION & RADIATION Compliance to EN55022 (CISPR22) Class B HARMONIC CURRENT Compliance to EN61000-3-2,-3 EMS IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A MTBF 161.6K hrs min. MIL-HDBK-217F (25°C) DIMENSION 199*99*50mm (L*W*H) PACKING 0.9Kg; 20pcs/19Kg/1.28CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."			Protection type : Shut down o/p voltage, recovers automatically after temperature goes down												
ENVIRONMENT STORAGE TEMP., HUMIDITY -20 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0~50°C) VIBRATION 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes SAFETY STANDARDS UL60950-1, TUV EN60950-1 approved WITHSTAND VOLTAGE I/P-O/P;3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC 1min. SOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMI CONDUCTION & RADIATION Compliance to EN55022 (CISPR22) Class B HARMONIC CURRENT Compliance to EN61000-3-2,-3 EMS IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A MTBF 161.6K hrs min. MIL-HDBK-217F (25°C) DIMENSION 199*99*50mm (L*W*H) PACKING 0.9Kg; 20pcs/19Kg/1.28CUFT NOTE 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."		WORKING TEMP.	-10 ~ +60	-10 ~ +60°C (Refer to output load derating curve)											
TEMP. COEFFICIENT ### 10.03%/°C (0~50°C) ### VIBRATION ### 10~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes ### SAFETY STANDARDS ### UL60950-1, TUV EN60950-1 approved ### WITHSTAND VOLTAGE ### I/P-O/P:3KVAC //P-FG:1.5KVAC O/P-FG:0.5KVAC 1min. ### ISOLATION RESISTANCE ### I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH ### EMI CONDUCTION & RADIATION ### Compliance to EN55022 (CISPR22) Class B ### HARMONIC CURRENT ### Compliance to EN61000-3-2,-3 ### EMS IMMUNITY ### Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A ### MTBF ### 161.6K hrs min. MIL-HDBK-217F (25°C) ### DIMENSION ### 199*99*50mm (L*W*H) ### PACKING ### 0.9Kg; 20pcs/19Kg/1.28CUFT **NOTE ### 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ### 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. ### 3. Tolerance: includes set up tolerance, line regulation and load regulation. ### 3. Tolerance: includes set up tolerance, line regulation and load regulation. ### 3. Tolerance: includes set up tolerance, line regulation and load regulation. ### 3. Tolerance: includes set up tolerance, line regulation and load regulation. ### 3. Tolerance: includes set up tolerance, line regulation and load regulation. ### 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."	ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing												
VIBRATION 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes SAFETY STANDARDS UL60950-1, TUV EN60950-1 approved WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC 1min. ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMI CONDUCTION & RADIATION Compliance to EN55022 (CISPR22) Class B HARMONIC CURRENT Compliance to EN61000-3-2,-3 EMS IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A MTBF 161.6K hrs min. MIL-HDBK-217F (25°C) DIMENSION 199*99*50mm (L*W*H) PACKING 0.9Kg; 20pcs/19Kg/1.28CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."		STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95 [™] RH												
SAFETY STANDARDS UL60950-1, TUV EN60950-1 approved WITHSTAND VOLTAGE I/P-O/P;3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC 1min. ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMI CONDUCTION & RADIATION Compliance to EN55022 (CISPR22) Class B HARMONIC CURRENT Compliance to EN61000-3-2,-3 EMS IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A MTBF 161.6K hrs min. MIL-HDBK-217F (25°C) DIMENSION 199*99*50mm (L*W*H) PACKING 0.9Kg; 20pcs/19Kg/1.28CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."		TEMP. COEFFICIENT	±0.03%/°C (0~50°C)												
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HARMONIC CURRENT Compliance to EN61000-3-2,-3 EMS IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A MTBF 161.6K hrs min. MIL-HDBK-217F (25°C) DIMENSION 199*99*50mm (L*W*H) PACKING 0.9Kg; 20pcs/19Kg/1.28CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."		EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B												
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File Name:TP-150-SPEC 2010	NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consic EMC directives. For guidan	ed at 20Mb tolerance, dered a cor nce on how	Iz of band line regula nponent wi to perform	width by us ation and lo hich will be	sing a 12" t ad regulati installed in	twisted pair on. nto a final e	-wire termi equipment.	nated with The final e	a 0.1uf & equipment	47uf paralle must be re	-confirmed es."	I that it still		



