

FEATURES

- Cooling Fan
- 100% Burn-in
- Class I Insulation
- IEC-320-C14 Input Inlet
- Long Hold-Up Times (50ms)
- Power Factor Correction (PFC)
- Option: Mounting Tab and Desk Top
- Optional Output Connectors Available
- Over Voltage Protection (Crowbar Design)
- -20°C ~ 70°C Operating Temperature Range
- Input Surge Current, Over Voltage, and Over Load Protection

APPLICATIONS

- Scanners
- LCD Monitors
- Thermal Printers
- Humidity Temperature Meters



DESCRIPTION

The DTIPU130 series of AC/DC desktop switching mode power supplies provide up to 130 watts of continuous output power. This series has single and dual output models available. Some features include wide input voltage range, cooling fan, and -20°C~+70°C operating temperature range. All models are protected against input surge current, over voltage, and over load conditions. All supplies are also UL 94V-1 compliant and include IEC-320-C14 input connector for worldwide applications. All models meet FCC-Part-15 class B and CISPR-22 class B emission limits and are designed to comply with UL/c-UL (UL 60950-1), ITS/GS (EN 60950-1), and new CE requirements. These supplies are 100% burn-in tested.

SPECIFICATIONS: DTIPU130 Series					
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted. We reserve the right to change specifications based on technological advances.					
SPECIFICATION	TEST CONDITIONS	Min	Nom	Max	Unit
INPUT (V_{in})					
Operating Voltage Range		90		260	VAC
Input Frequency		47		63	Hz
Input Current (Low Line)	I _o = Full Load, V _{in} = 115VAC		1.7	3.2	A
Input Current (High Line)	I _o = Full Load, V _{in} = 230VAC		0.7	1.7	A
Inrush Current (Low Line)	I _o = Full Load, 25°C, Cool Start, V _{in} = 115VAC		15	30	A
Inrush Current (High Line)	I _o = Full Load, 25°C, Cool Start, V _{in} = 230VAC		30	60	A
Safety Ground Leakage Current	I _o = Full Load, V _{in} = 240VAC		0.5	0.75	mA
Start-Up Time	I _o = Full Load, V _{in} = 100VAC	0.3	1	2	s
OUTPUT (V_o)					
Output Voltage Range		See Rating Chart			VDC
Load Regulation	V _{in} = 230VAC		3	10	%
Line Regulation	I _o = Full Load		0.5	1	%
Output Power	V _{in} = 90 to 264VAC	0		130	W
Output Current Range		See Rating Chart			A
*Ripple & Noise (peak to peak)	Full Load, V _{in} = 90VAC		0.5	1	%
Transient Response Time	I _o = Full Load to Half Load, V _{in} = 100VAC			4	ms
Hold-Up Time	I _o = Full Load, V _{in} = 100VAC	50			ms
Temperature Coefficient	All Outputs	-0.04		+0.04	%/°C
PROTECTION					
Over Voltage Protection		112		132	%
Over Current Protection		110		150	%
GENERAL					
Efficiency	I _o = Full Load, V _{in} = 230VAC		80	85	%
Dielectric Withstanding Voltage For Primary to Secondary	Primary to Secondary	4242			VDC
Dielectric Withstanding Voltage For Primary to Ground	Primary to Ground	2121			VDC
Isolation Resistance	Test Voltage = 500VDC	50			MΩ
Power Factor Correction	I _o = Full Load, V _{in} = 90~260VAC	0.95		1	
ENVIRONMENTAL					
Operating Temperature	Derates linearly from 100% Load at 25°C to 50% load at 70°C	-20		+70	°C
Storage Temperature		-40		+85	°C
Relative Humidity		5		95	%
Cooling (See Note 4)	Cooling fan will turn on when the internal temperature reaches +70°C	Cooling fan			
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F	100,000 hours			
PHYSICAL					
Weight		Approximately 750 ~ 916 grams			
Dimensions (L x W x H)		7.72 x 3.46 x 2.01 inches 196.0 x 88.0 x 51.0 mm			
SAFETY					
EMI Requirements for CISPR-22	V _{in} = 220VAC	B			Class
EMI Requirements for FCC PART-15	V _{in} = 110VAC	B			Class

*Note: The Ripple & Noise for output voltages under 3.3VDC is 2% max.

MODEL SELECTION TABLES

SINGLE OUTPUT MODELS

Model Number	Preset Voltage	Output Voltage Range	Output Current	Total Regulation	Output Power
*DTIPU130-101	5 VDC	3 ~ 5 VDC	18.00~30.00A	7%	90W
*DTIPU130-102	6 VDC	5 ~ 6 VDC	19.16~23.00A	7%	115W
*DTIPU130-103	8 VDC	6 ~ 8 VDC	16.25~21.60A	7%	130W
*DTIPU130-104	11 VDC	8 ~ 11 VDC	11.80~16.25A	5%	130W
FC *DTIPU130-105	13 VDC	11 ~ 13 VDC	10.00~11.80A	5%	130W
*DTIPU130-106	16 VDC	13 ~ 16 VDC	8.12~10.00A	5%	130W
*DTIPU130-107	21 VDC	16 ~ 21 VDC	6.19~8.12A	5%	130W
*DTIPU130-108	27 VDC	21 ~ 27 VDC	4.81~6.19A	5%	130W
*DTIPU130-109	33 VDC	27 ~ 33 VDC	3.93~4.81A	5%	130W
DTIPU130-110	40 VDC	33 ~ 40 VDC	3.25~3.93A	3%	130W
FC DTIPU130-111	50 VDC	40 ~ 50 VDC	2.60~3.25A	3%	130W
DTIPU130-112	55 VDC	50 ~ 55 VDC	2.36~3.25A	3%	130W

DUAL OUTPUT MODELS

Model Number	Output Voltage	Output Current		Total Regulation	Output Power	
		Min.	Max.			
FC *DTIPU130-200	Output 1	+3.3 VDC	4A	20A	7%	90W
	Output 2	+12.0 VDC	0A	2A	5%	
*DTIPU130-201	Output 1	+5.0 VDC	4A	20A	7%	120W
	Output 2	+12.0 VDC	0A	2A	5%	
*DTIPU130-201-1	Output 1	+5.0 VDC	2A	10A	5%	110W
	Output 2	+12.0 VDC	1A	5A	10%	
*DTIPU130-202	Output 1	+5.0 VDC	4A	20A	7%	120W
	Output 2	+15.0 VDC	0A	2A	5%	
*DTIPU130-203	Output 1	+5.0 VDC	4A	20A	7%	120W
	Output 2	+24.0 VDC	0.2A	2A	5%	

NOTES

1. For single output models the output voltage is specified as a range (Ex: 50 ~ 55VDC); the preset voltage will be set as standard models if nothing different is requested. Please contact factory for ordering details.
2. The “*” symbol means PSE approval.
3. Models with output voltages under 15VDC have been approved by TUV/PSE. Models with output voltages from 15 ~ 30VDC have been approved by JET/PSE.
4. The cooling fan will turn on when the internal temperature of the unit reaches +70°C.
5. Optional output connectors are available. Please call factory for ordering details.
6. Option: Mounting Tab and Desk Top.

MECHANICAL DRAWING

Unit: inches [mm]

