

## FEATURES

- Splash Proof
- 2 Year Warranty
- B Type: Class II Insulation
- Optional Output Connectors
- A & C Types: Class I Insulation
- 3 Types of Inlet Connectors Available
- Approved as Limited Power Source (LPS)
- Wide Input Voltage 90~264VAC, 47~63Hz
- -20°C~+70°C Operating Temperature Range



## DESCRIPTION

The DTIPU25 Series of AC/DC switching mode single output power supplies provides 25 watts of continuous output power. All models have a single output, universal input voltage range, and an operating temperature range of -20°C ~ +70°C. This series also has three types of AC inlet connectors to choose from: Type A (IEC-320-C14), Type B (IEC-320-C8), or Type C (IEC-320-C6). All supplies are UL 94V-1 compliant. All models meet FCC Part-15 class B and CISPR-22 class B emission limits and are designed to comply with UL/cUL (UL 60950-1), TUV/GS (EN 60950-1) and new CE requirements. All units are Energy Star compliant and 100% burn-in tested.

SPECIFICATIONS: DTIPU25 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
<b>INPUT (V<sub>in</sub>)</b>					
Operating Voltage Range		90		264	VAC
Input Frequency		47		63	Hz
Input Current (Low Line)	I <sub>o</sub> = Full Load, V <sub>in</sub> = 115VAC			0.4	A
Input Current (High Line)	I <sub>o</sub> = Full Load, V <sub>in</sub> = 230VAC			0.25	A
Inrush Current (Low Line)	I <sub>o</sub> = Full Load, 25°C, Cool Start, V <sub>in</sub> = 115VAC		12	15	A
Inrush Current (High Line)	I <sub>o</sub> = Full Load, 25°C, Cool Start, V <sub>in</sub> = 230VAC		26	30	A
Safety Ground Leakage Current (A & C Types Only)	I <sub>o</sub> = Full Load, V <sub>in</sub> = 240VAC		0.5	0.75	mA
Safety Ground Leakage Current (B Type Only)	I <sub>o</sub> = Full Load, V <sub>in</sub> = 240VAC		0.15	0.25	mA
Start-Up Time	I <sub>o</sub> = Full Load, V <sub>in</sub> = 100VAC		0.25	0.5	s
<b>OUTPUT (V<sub>o</sub>)</b>					
Output Voltage Range		See Rating Chart			
Load Regulation	V <sub>in</sub> = 230VAC	1	3	5	%
Line Regulation	I <sub>o</sub> = Full Load		0.5	1	%
Output Power Range	V <sub>in</sub> = 90 to 264VAC	0		25	W
Output Current Range		See Rating Chart			
Ripple & Noise (peak to peak)	Full Load, V <sub>in</sub> = 90VAC		0.5	1	%
Transient Response Time	I <sub>o</sub> = Full Load to Half Load, V <sub>in</sub> = 100VAC			4	ms
Hold-Up Time	I <sub>o</sub> = Full Load, V <sub>in</sub> = 110VAC	12	14	16	ms
<b>PROTECTION</b>					
Over Voltage Protection			Nil		%
Over Current Protection		110		150	%
<b>GENERAL</b>					
Efficiency	I <sub>o</sub> = Full Load, V <sub>in</sub> = 230VAC	75	85	95	%
Dielectric Withstanding Voltage For Primary to Secondary	Primary to Secondary	4242			VDC
Dielectric Withstanding Voltage For Primary to Ground (A & C Types Only)	Primary to Ground	2121			VDC
Isolation Resistance	Test Voltage = 500VDC	50			MΩ
No Load Power Consumption	No Load, V <sub>in</sub> = 240VAC	0	0.4	0.5	W
<b>ENVIRONMENTAL</b>					
Operating Temperature	Derate linearly from 100% Load at 40°C to 50% load at 70°C	-20		70	°C
Storage Temperature		-40		85	°C
Relative Humidity		5		95	%
Temperature Coefficient	All Outputs	-0.04		+0.04	%/°C
MTBF		300,000 hours			
<b>PHYSICAL</b>					
Weight		Approximately 170 grams			
Dimensions		A Type: 4.11 x 1.65 x 1.22 inches B & C Types: 3.90 x 1.65 x 1.22 inches			
Input Inlet		IEC-320-C14, IEC-320-C8, IEC-320-C6			
Warranty		2 years			
<b>SAFETY</b>					
CISPR (EMI Requirements for CISPR-22)	V <sub>in</sub> = 220VAC	B			Class
FCC (EMI Requirements for FCC Part-15)	V <sub>in</sub> = 110VAC	B			Class

**MODEL SELECTION CHART**

Model Number	Preset Voltage	Output Voltage Range	Output Current	Total Regulation	Max Output Power	AC Inlet Connector
DTIPU25A-102	6 VDC	5 ~ 6 VDC	3.00 ~ 2.75A	5%	16.5W	IEC-320-C14
DTIPU25A-103	8 VDC	6 ~ 8 VDC	3.30 ~ 2.50A	5%	20W	
DTIPU25A-104	11 VDC	8 ~ 11 VDC	2.75 ~ 2.00A	5%	22W	
DTIPU25A-105	13 VDC	11 ~ 13 VDC	2.27 ~ 1.92A	5%	25W	
DTIPU25A-106	16 VDC	13 ~ 16 VDC	1.92 ~ 1.56A	5%	25W	
DTIPU25A-107	21 VDC	16 ~ 21 VDC	1.56 ~ 1.19A	5%	25W	
DTIPU25A-108	27 VDC	21 ~ 27 VDC	1.19 ~ 0.92A	3%	25W	
DTIPU25A-109	33 VDC	27 ~ 33 VDC	0.92 ~ 0.75A	3%	25W	
DTIPU25A-110	40 VDC	33 ~ 40 VDC	0.75 ~ 0.62A	3%	25W	
DTIPU25A-111	48 VDC	40 ~ 48 VDC	0.62 ~ 0.52A	3%	25W	
DTIPU25B-102	6 VDC	5 ~ 6 VDC	3.00 ~ 2.75A	5%	16.5W	IEC-320-C8
DTIPU25B-103	8 VDC	6 ~ 8 VDC	3.30 ~ 2.50A	5%	20W	
DTIPU25B-104	11 VDC	8 ~ 11 VDC	2.75 ~ 2.00A	5%	22W	
DTIPU25B-105	13 VDC	11 ~ 13 VDC	2.27 ~ 1.92A	5%	25W	
DTIPU25B-106	16 VDC	13 ~ 16 VDC	1.92 ~ 1.56A	5%	25W	
DTIPU25B-107	21 VDC	16 ~ 21 VDC	1.56 ~ 1.19A	5%	25W	
DTIPU25B-108	27 VDC	21 ~ 27 VDC	1.19 ~ 0.92A	3%	25W	
DTIPU25B-109	33 VDC	27 ~ 33 VDC	0.92 ~ 0.75A	3%	25W	
DTIPU25B-110	40 VDC	33 ~ 40 VDC	0.75 ~ 0.62A	3%	25W	
DTIPU25B-111	48 VDC	40 ~ 48 VDC	0.62 ~ 0.52A	3%	25W	
DTIPU25C-102	6 VDC	5 ~ 6 VDC	3.00 ~ 2.75A	5%	16.5W	IEC-320-C6
DTIPU25C-103	8 VDC	6 ~ 8 VDC	3.30 ~ 2.50A	5%	20W	
DTIPU25C-104	11 VDC	8 ~ 11 VDC	2.75 ~ 2.00A	5%	22W	
DTIPU25C-105	13 VDC	11 ~ 13 VDC	2.27 ~ 1.92A	5%	25W	
DTIPU25C-106	16 VDC	13 ~ 16 VDC	1.92 ~ 1.56A	5%	25W	
DTIPU25C-107	21 VDC	16 ~ 21 VDC	1.56 ~ 1.19A	5%	25W	
DTIPU25C-108	27 VDC	21 ~ 27 VDC	1.19 ~ 0.92A	3%	25W	
DTIPU25C-109	33 VDC	27 ~ 33 VDC	0.92 ~ 0.75A	3%	25W	
DTIPU25C-110	40 VDC	33 ~ 40 VDC	0.75 ~ 0.62A	3%	25W	
DTIPU25C-111	48 VDC	40 ~ 48 VDC	0.62 ~ 0.52A	3%	25W	

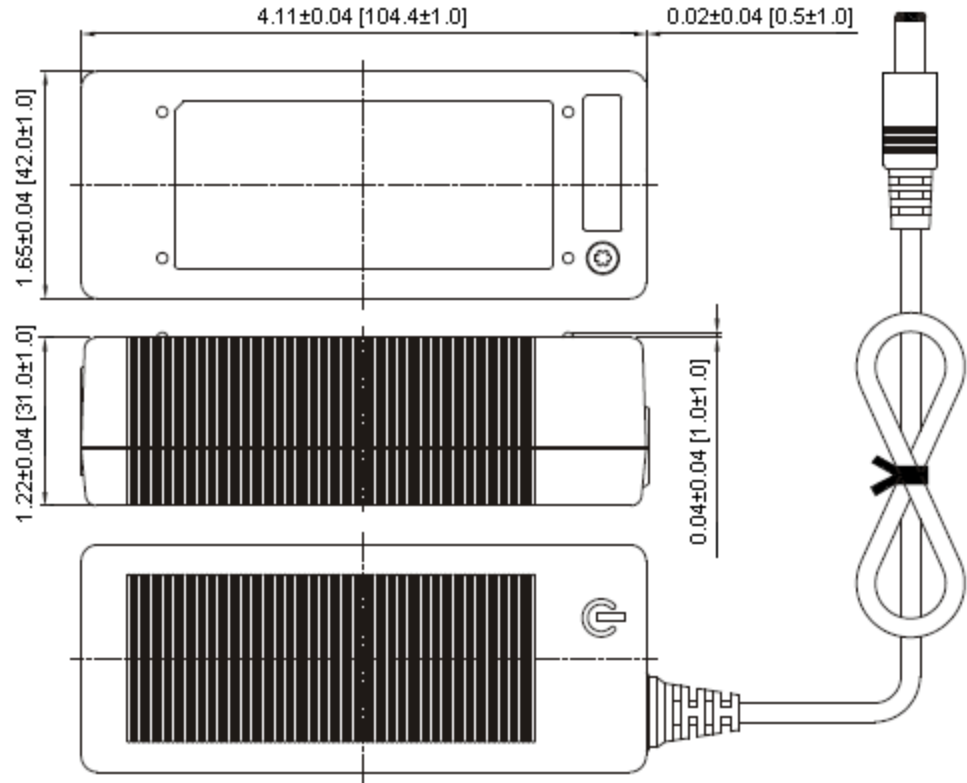
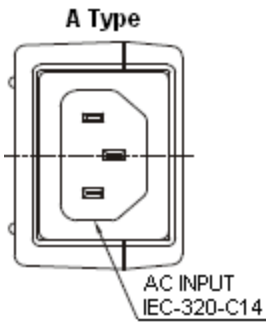
**NOTES**

1. The DTIPU25 Series is designated as DTIPU25x-y where x represents the type of AC input inlet connector, which can either be **A** (IEC-320-C14), **B** (IEC-320-C8), or **C** (IEC-320-C6); y can be 102, 103, 104, 105, 106, 107, 108, 109, 110 or 111 for output voltage.
2. The output voltage is specified as a range (Ex: 40 ~ 48VDC); the preset voltage will be set as standard models if nothing different is requested. Please contact factory for ordering details.
3. Models with output voltages under 30VDC have been approved by TUV/PSE.
4. Optional output connectors are available. Please call factory for ordering details.

**MECHANICAL DRAWINGS**

Unit: inches [mm]

**TYPE A**



**TYPES B & C**

