



C14 Inlet C8 Inlet C6 Inlet C18 Inlet

Size: 4.45in x 1.87in x 1.22in
(113mm x 47.5mm x 31mm)

FEATURES

- Wide Input Range of 90~267VAC
- RoHS Compliant
- LED Indication
- C14, C8, C6, and C18 AC Inlets Available
- Meets Level VI Efficiency
- USB Type C Adapter
- 500 Piece MOQ for Production
- Over Voltage, Short Circuit, Over Current, and Over Temperature Protection
- UL/cUL, CB, CE, and FCC Safety Approvals

DESCRIPTION

The DTEA1062 series of AC/DC desktop USB Type C power supplies offers 60 watts of output power in a 4.45" x 1.87" x 1.22" package. This series consists of single output models with a wide input range of 90~267VAC and LED indication. Four types of AC Inlets are available for this series: C14, C8, C6, and C18 inlets. Each model in this series is RoHS and Level VI compliant, has over voltage, short circuit, over current, and over temperature protection, and has UL/cUL, CB, CE, and FCC safety approvals. Please contact factory for order details.

MODEL SELECTION TABLE

Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current		Ripple & Noise ⁽²⁾	Tolerance	Efficiency	Output Power
			Min Load	Max Load				
DTEA10625X	90~267VAC	5V	0A	3A	100mV	4.75~5.25V	81.39%	60 Watts
DTEA10629X		9V	0A	3A	180mV	8.55~9.45V	86.62%	
DTEA106215X		15V	0A	3A	300mV	14.25~15.75V	87.8%	
DTEA106220X		20V	0A	3A	360mV	19~21V	88%	

SPECIFICATIONS

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	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		90	100~240	267	VAC
Input Frequency		47	50~60	63	Hz
Input Current	@115VAC Input with Full Load			1.8	A
	@230VAC Input with Full Load			0.9	
Inrush Current	@110VAC, Cold Start, Maximum Load		≤50		A
	@230VAC, Cold Start, Maximum Load		≤100		
Input Fuse	Hot line side of input shall have a fuse	Rating (T3.15A/250A)			
Configuration	Line, Neutral	2-wire AC Input			
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Voltage Tolerance		See Table			
Line Regulation ⁽²⁾	% of Rated Output Voltage @ Full Load		±1		%
Load Regulation			±5		%
Dynamic Load Regulation ⁽³⁾			±5		%
Output Power		See Table			
Output Current		See Table			
Ripple & Noise ⁽⁴⁾		See Table			
Hold Up Time	@Normal Line, Full Load		≥8.3		mS
Rise Time	@Rated AC input, Full Load. From 5V to 90% output voltage		≤275		mS
Turn On Time ⁽⁵⁾			≤3		S
PROTECTION					
Short Circuit Protection		Automatic Recovery			
Over Current Protection		Automatic Recovery			
Over Voltage Protection		Automatic Recovery			
Over Temperature Protection		Optional			
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		0		40	°C
Storage Temperature		-20		85	°C
Operating Humidity		10		90	%
Storage Humidity		5		90	%
Altitude	Operation and Non-Operation		5,000		M
Temperature Rise	Top/Bottom case @ normal AC input & 80% load of DC output @ env. temp. 25°C			45	°C
Stability	@Constant load with constant input (after 30 min of operation)			2	%
MTBF (MIL-HDBK-217F)	@25°C	100,000			Hours

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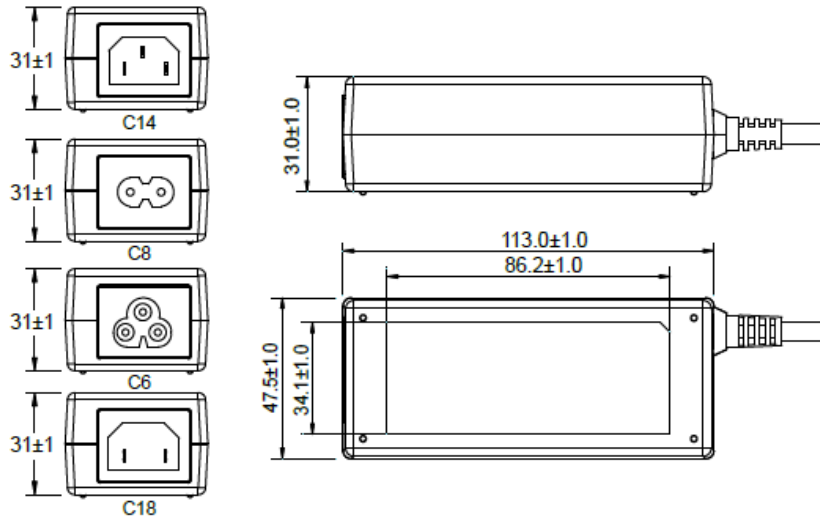
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
GENERAL SPECIFICATIONS					
Efficiency ⁽⁶⁾		Meets CEC Level VI (DoE)			
Stability	@constant load with constant input after 30 minutes of operation			2	%
Drop-Out (Power Line Disturbance)	@ full load and normal AC line input	Output voltage shall remain within specified regulation range, through the absence of a line input during ½ cycle			
Voltage Isolation	DC ground isolated from AC neutral and AC line				
No Load Power Including LED	No Load Power Consumption with USB Type C No Connection		≤0.1		W
Hi-Pot Test	Between Primary and Secondary Circuit	3000VAC, 10mA, 3 Sec.			
Insulation Test	Between Primary and Secondary Circuit	500VDC, 3 Sec			
Insulation Resistance			≥100		MΩ
Leakage Current	@240VAC/50Hz		≤250		uS
Vibration Test	Vibration frequencies are set at 20Hz, with total amplitude of 1.5mm along 3 directions namely X, Y, Z. Each direction should be vibrated for 60 minutes. After testing, nothing electrically or mechanically abnormal should occur				
Drop Test ⁽⁷⁾	Products should be dropped from a height of 900mm onto a horizontal surface of hardwood that is 13mm thick, mounted on two layers of plywood 19-20mm thick, all supported on a concrete or equally non-resilient floor. Upon conclusion of test, equipment need not be operational.				
PHYSICAL SPECIFICATIONS					
Weight		10.58oz (300g)			
Dimensions (L x W x H)		4.45in x 1.87in x 1.22in (113mm x 47.5mm x 31mm)			
AC Inlet		C14, C8, C6, C18			
Enclosure Material		94V-0 Minimum			
SAFETY CHARACTERISTICS					
Safety Approvals		UL/cUL ⁽⁸⁾ , CB, CE, FCC			
EMI Standards		CISPR 22, EN 55022			
ESD		IEC 61000-4-2			
RS		IEC 61000-4-3			
EFT		IEC 61000-4-4			
Surge		IEC 61000-4-5			

NOTES

1. "X" in model number represents AC Inlet type. "X" can either be "A" for C14, "B" for C8, "C" for C6, or "D" for C18. Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.1uF ceramic capacitor & parallel with 47uF aluminum capacitor at full load and nominal line.
2. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
3. Excursion for 50%-100% or 100%-50% load change of DC output at any frequency up to 1KHz (duty 50%)
4. The power supply shall not exceed these limits on indicated voltage for 60Hz or 50Hz ripple
Switching frequency ripple and noise and dynamic load variations measured with a 20Mhz bandwidth
Input condition: for rated voltage, Output condition: for max load
Ripple/Noise: 60Hz ripple + switching ripple and noise
Ripple & Noise are measured at the end of output cable which are added a 0.1uF ceramic capacitor and a 47uF electrolytic capacitor
5. Output voltage should rise to 90% of rated output voltage in less than 3Sec from AC apply to 100VAC from start up.
6. At 115Vac/60Hz & 230Vac/50Hz input voltage and 25%, 50%, 75% & 100% of max output current.
7. Referencing CSA C22.2 No.950/UL1950/UL1310/EN60950)
8. This product is Listed to applicable standards and requirements by UL.

*Due to advances in technology, specifications subject to change without notice.

MECHANICAL DRAWINGS



- Case Size: 113L x 47.5W x 31H (mm)
- AC Inlet: C14, C8, C6, C18
- Weight: 300g

COMPANY INFORMATION

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001: 2015 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

Contact **Wall Industries** for further information:

Phone: ☎ (603)778-2300
Toll Free: ☎ (888)597-9255
Fax: ☎ (603)778-9797
E-mail: sales@wallindustries.com
Web: www.wallindustries.com
Address: 37 Industrial Drive
Exeter, NH 03833

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