



DTD130-zzSX-F-W7



130 Watt AC/DC ITE/ Household

FEATURES

- ITE and Household Approvals
- <0.15W No Load Input Power, Level VII
- Power ON LED indicator
- Altitude during operation: 62368-1 :5000m, 61558-1 :2000m
- Touch current less than 250 uA
- Protection Class IP 42
- 3-pin IEC320-C14 Class I Standard, C6 Special Order. 2-pin IEC320-C18 or C8 Class II models are available
- 3- Year Warranty

Safety Pending, Q4 2024



UNIT			
INPUT	Voltage/Freq	V	AC90V - 264V 47 / 63Hz
	Current (rms).	A	2.2A @115VAC; 1.1A @230VAC max
	Power Factor	-	> .95 @ 115vac; > .90@230vac @ full load
	Inrush Current	A	<50A peak @115VAC; <100A peak @230VAC cold start @25 C
	Leakage Current	uA	< 100uA @264VA

		UNIT	DTD130-12SX-F-W7	DTD130-19SX-F-W7	DTD130-24SX-F-W7	DTD130-36SX-F-W7
OUTPUT	Nom. Voltage	VDC	12	19	24	36
	Efficiency typ	%	90	90	90	90
	Current	A	10.83	6.84	5.41	3.61
	Regulation		+/-5%	+/-5%	+/-5%	+/-5%
	Ripple Noise (v1)	mV	120 max	150 max	200 max	200 max
	Max. Capacitor Load	uF	13000	11000	9000	5000

		UNIT	DTD120-48SX-F-W7
OUTPUT	Nom. Voltage	VDC	48
	Efficiency typ	%	90
	Current	A	2.7
	Regulation		+/-5%
	Ripple Noise (v1)	mV	200 max
	Max. Capacitor Load	uF	2700
	Holdup-Time	mS	> 18ms typical @full load





Protection	Over-voltage protection	Latching type, AC Recycle
	Over-current protection	Auto-recovery
	Short-circuit protection	Auto-recovery
Emission	EMI/EMC	EN (BS EN) 55032 Class B, EN (BS EN) 55035 Class B, FCC Part 15 Class B, EN55014-1, EN55014-2, ICES-003, CE
Safety <i>Safety Pending</i>		UL 62368-1, TUV EN62368-1, CB IEC 62368-1, IEC/EN 61558-1(Class II), IEC/EN 61558-2-16(Class II)
Environment	Operating temp/humid	-20 ~ +60°C, 10% to 95%, Non-condensing
	Storage temp/humid	-20°C ~ +85°C, / 0% to 95%, Non-condensing
Size	MM/G	L 153×W 70×H 35 mm (6.03"x2.76"x1.38"), 0.57kgs. (1.26 lbs.)
MTBF		> 300,000 hours @full load and 25°C ambient temperature based on Telcordia SR-332(Bellcore)

- Notes:
1. Ripple and noise are measured. oscilloscope 20MHz bandwidth, a 47uF electrolytic capacitor, and a 0.1uF ceramic capacitor in parallel at the output connector.
 2. -1 to -20°C ambient temperature and EMS immunity worst-case O/P Regulation \leq +/-10%.
 3. The switching frequency of this series is set between 60 to 90KHz at full load.

Safety and EMC Performance

Description	Safety (PENDING)	EMC
Audio / Video, ITE equipment	IEC 62368-1:2018EN IEC 62368-1:2020+A11:2020UL 62368-1, 3rd EdCAN/CSA C22.2 No. 62368-1:19, 3rd Ed	EN (BS EN) 55032:2015+A11:2020EN (BS EN) 55035:2017+A11:2020FCC 47 CFR Part 15B(*)ICES-003 Issue 7
Household SMPS Requirement Electrical Appliances	IEC 61558-1:2017IEC 61558-2-16:2009/AMD1:2013EN IEC 61558-1 :2019EN 61558-2-16:2009+A1 :2013	EN(BS EN) IEC 55014-1 :2021EN(BS EN) IEC 55014-2: 2021CISPR 14-1 :2020AN/NZS CISPR 14-1 :2021

Note:
 Tests for conformance to this requirement will be performed with the final system:
 Class II complies with 61558-1 & 61558-2-16 for use in household electrical appliances (60335-1).
 (*) FCC PART 15 compliance information and warnings:
 This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
 (1) This device may not cause harmful interference, and
 (2) This device must accept any interference received, including interference that may cause undesired operation.

Insulation Level and Dielectric Withstand (HI-POT)

Audio/Video, ITE Equipment	Isolation Voltage	Grade Insulation
Primary circuits to secondary circuits	4242Vdc (3000Vac)	Reinforced
Primary circuits to earth ground (class I only)	2121Vdc (1500Vac)	Basic

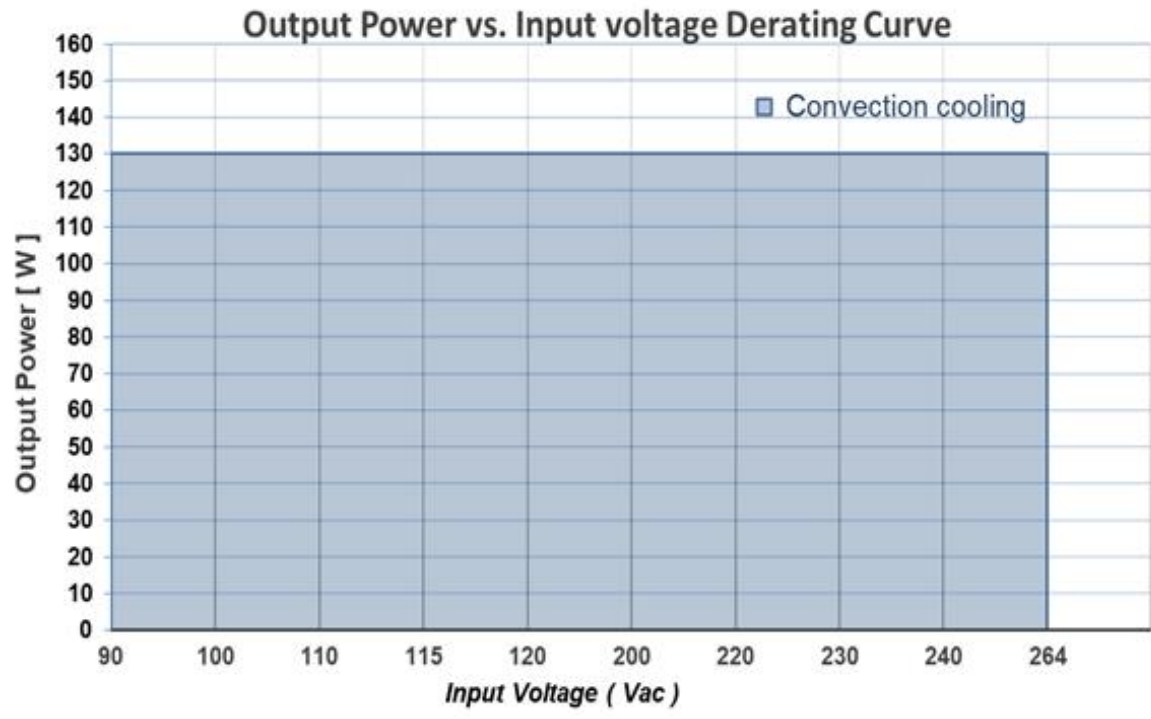
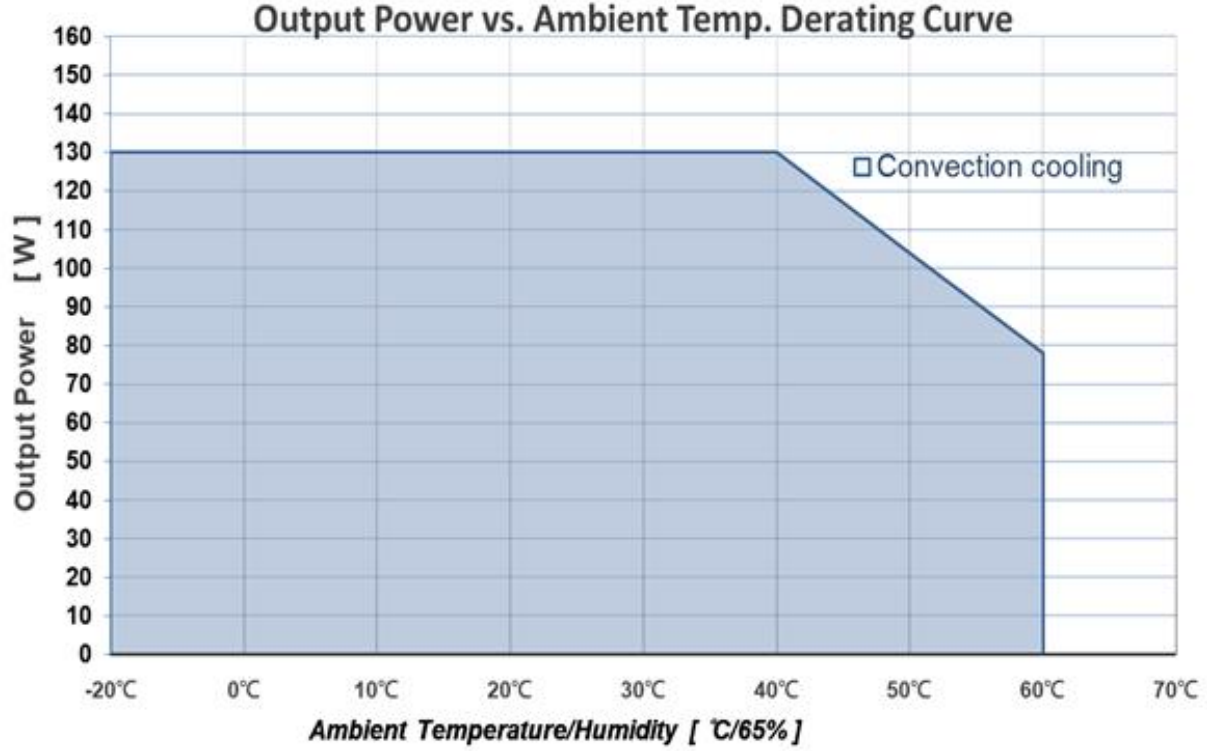
Household SMPS Equipment	Isolation Voltage	Grade Insulation
Primary circuits to secondary circuits	4242Vdc (3000Vac)	Reinforced

Note: Testing in production uses a DC voltage test for 4Sec.



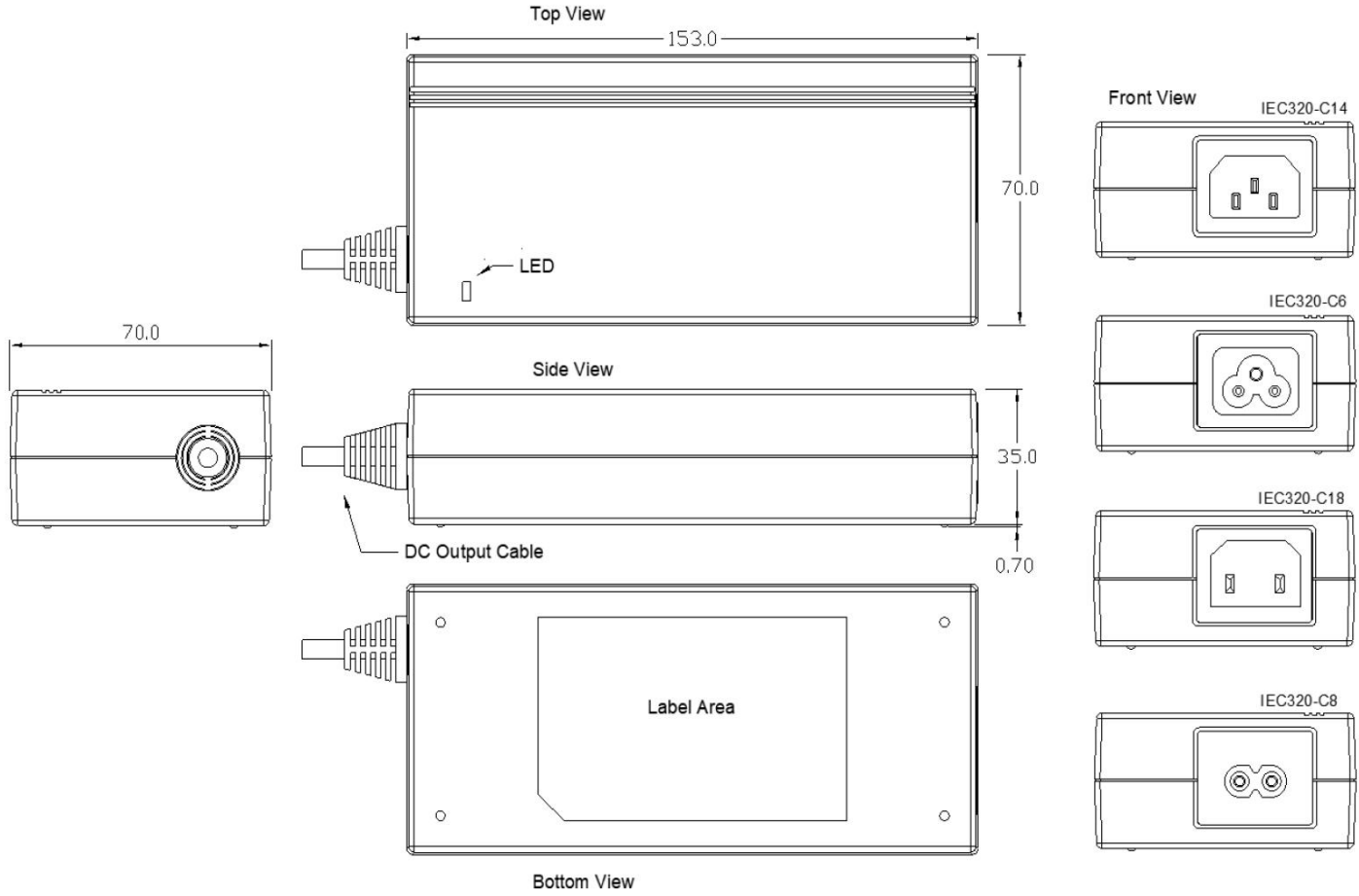


OUTPUT DERATING CURVE





DIMENSIONAL DRAWING



Note:

1. AC Inlet : IEC320-C14, C6, C18 or C8
2. Plastic Case Color : Black
3. Tolerance : $\pm 0.5\text{mm}$
4. Unit : mm

ORDERING INFO

DTD130-xxSX-F-W7 (Z)

Output Voltage=xx. 12, 19, 24, 36, 48

Input Connector =(Z). C14= blank, C6=B, C18=C, C8=D

Example 1: DTD130-12SX-F-W7 (12VDC output with IEC 320-C14 input connector)

Example 2: DTD130-24SX-F-W7 B (24VDC output with IEC 320-C6 input connector)



STANDARD CONNECTOR DRAWING BELOW

Standard output cable

- 1. AWM 11353 # 14 AWG / 1C + SHIELDING (or 16AWG+1) , UL 80°C 300V VW-1, 1000 mm.
- 2. AWM 2464 # 18 AWG / 4C + SHIELDING, UL 80°C 300V VW-1, 1000 mm.
- 3. Depends on customer's requirements.

****NOTE- Customer-specified DC connector and AC input inlet options are available; inquire at sales@eta-usa.com for more information**