Medical Test Comm Broadcast

300W Medical/ITE Class I and II External Power Supplies

Features	Benefits
• Meets 60601-1 & 60601-1-2 Ed , 2014	• Simplifies B & BF Equipment Design
• Wide Range AC, Class I & Class II inputs	• Global Operation
• <0.5W No Load Power	• Consumes Less Energy
• Meets DoE Level VI Efficiency	• Easier System Approvals

Specification

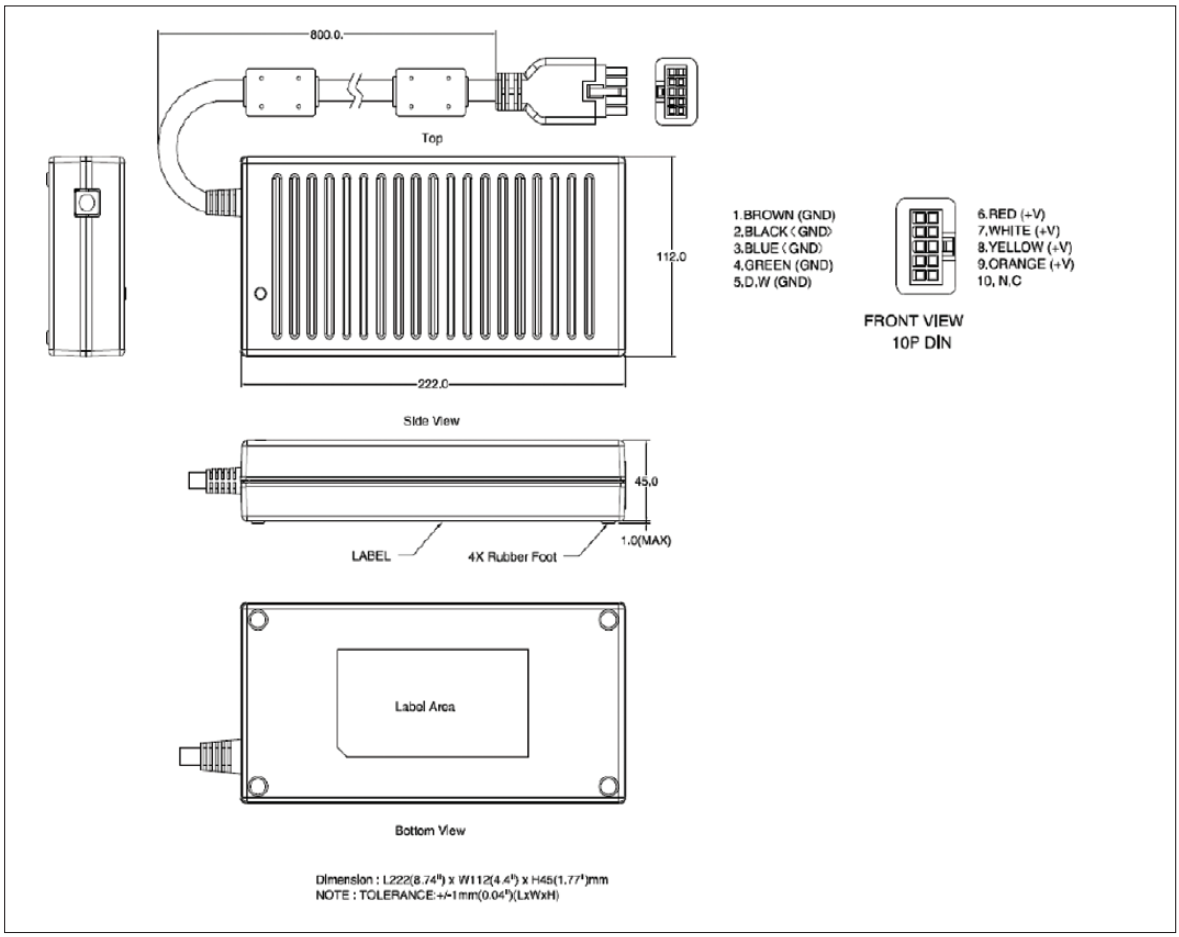
Model		DTM300M-D
Input Voltage range	VAC	90 - 264VAC (47 - 63Hz)
Inrush Current	A	<70A at 230VAC input, 25°C ambient cold start
Input Current	A	3A at 115VAC Maximum
Touch Current	-	<100uA @ 264VAC
Power Factor	-	Meets EN61000-3-2, >0.9 at 230VAC full load
Hold Up Time (Typ)	ms	10ms at 115VAC input
Temperature Coefficient	%/°C	±0.05%/°C
Adjustment Range	-	None
Minimum Load	A	None
Total Regulation	%	±5% (-20 to -30°C ±10%)
Ripple & Noise	mV	12V model: 240mV; all others 300mV
Overload & Short Circuit Protection	-	105 - 150% - hiccup mode
Overvoltage Protection	V	Auto-recovery
Efficiency	%	>88%, average efficiency
Operating Temperature	°C	-30 to +60°C derate linearly to 50% load from 40 to 60°C Derate linearly to 70% load from 0 to -30°C
Storage Temperature	°C	-30 to +85°C
Humidity (non condensing)	%RH	0 - 95%RH
Cooling	-	Convection
Withstand Voltage	VAC	Class I: Input to Ground 1.5kVAC, Input to Output 4kVAC (2xMoPP), Output to Ground: 1.5kVAC Class II: Input to Output 4kVAC (2xMoPP)
Safety Agency Certification	-	IEC/ES/CSA/EN60601-1, IEC60601-1-11*, IEC/UL/CSA/EN62368-1, 60950-1, CE Mark
No Load Power Consumption	W	< 0.5W
EMC	-	EN60601-2, IEC60601-1-2 Ed4:2014, EN55011 Class B, EN55024 Class B EN55024 Class B, FCC Part 15 Class B, FCC Part 18 Class B
Altitude	m	5,000 maximum
Weight (Typ)	g	1570g
Size (WxLxH)	mm	112 x 222 x 45
Cable Length	mm	800
AC Input Connector	-	Class I: IEC 320-C14 (3 prong); Class II: IEC 320-C18 (2 prong)
Output Connector	-	See Output Connector on page 3
Warranty	yrs	3

* Class II D2 models

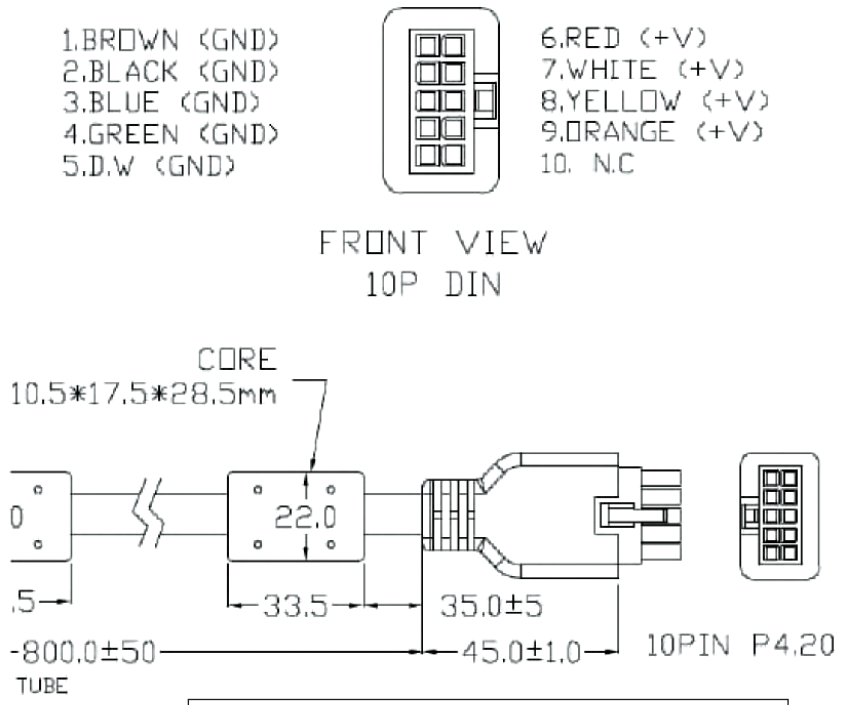
Model Selector

Model	Output (V)	Maximum Output (A)	Maximum Power (W)	Ripple /Noise	Regulation (mV)	Efficiency Level	Class
DTM300PW-120D1	12V	25A	300W	240mV	±5%	VI	I
DTM300PW-150D1	15V	20A	300W	300mV	±5%	VI	I
DTM300PW-190D1	19V	15.79A	300W	300mV	±5%	VI	I
DTM300PW-240D1	24V	12.5A	300W	300mV	±5%	VI	I
DTM300PW-280D1	28V	10.71A	300W	300mV	±5%	VI	I
DTM300PW-480D1	48V	6.25A	300W	300mV	±5%	VI	I
DTM300PW-540D1	54V	5.56A	300W	300mV	±5%	VI	I
DTM300PW-120D2	12V	25A	300W	240mV	±5%	VI	II
DTM300PW-150D2	15V	20A	300W	300mV	±5%	VI	II
DTM300PW-190D2	19V	15.79A	300W	300mV	±5%	VI	II
DTM300PW-240D2	24V	12.5A	300W	300mV	±5%	VI	II
DTM300PW-280D2	28V	10.71A	300W	300mV	±5%	VI	II
DTM300PW-480D2	48V	6.25A	300W	300mV	±5%	VI	II
DTM300PW-540D2	54V	5.56A	300W	300mV	±5%	VI	II

Outline Drawing DTM300-D Series



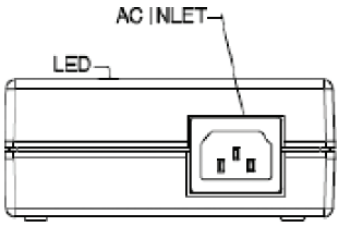
Output Connector DTM300-D Series



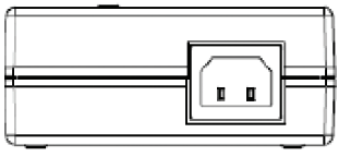
Matching connectors

DC Output Connector
Standard male plug (power supply side): 10 PIN Mini Fit Jr Pitch; 4.2mm
Mating Connector: Molex P/N: 39-28-1103 or equivalent.
DC output cable: 8C+1, UL2464, 16AWG, VW-1, 80°C, 300V

Input Connector Class I & Class II



Front View (IEC320-C14)



Front View (IEC320-C18)

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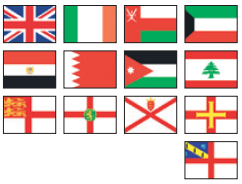

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