



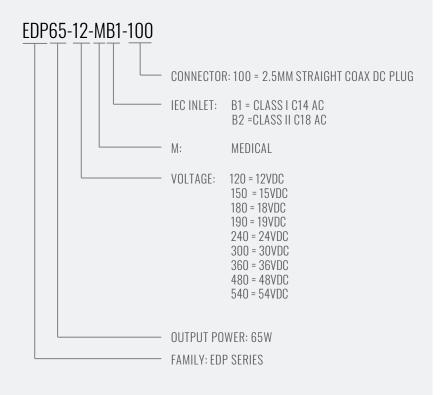
### 65W DESKTOP EXTERNAL POWER ADAPTER FOR MEDICAL AND INDUSTRIAL APPLICATIONS

The Astrodyne TDI EDP65 is a range of external desktop power supplies specifically designed to meet the power needs of industrial and medical applications. These power supplies can efficiently operate within an input voltage range of 90 to 264 VAC, with a frequency of 50-60Hz, and can deliver a maximum of 65 Watts of regulated DC output power. Additionally, they comply with the latest DoE Level VI efficiency, IEC 60601-1-1, 3rd Edition, Amendment 1 safety, and IEC 60601-1-2, 4th Edition, Class B EMC standards, ensuring reliable performance and safety.





### **HOW TO ORDER**



#### FFATURES & BENEFITS

#### UNIVERSAL AC INPUT

90-264VAC, 47/63Hz

#### **PROTECTIONS**

Over Voltage Protection: 112-132%

Overload Protection: 110-150%, Auto Recovery

Short Circuit Protection: Auto Recovery

#### **SAFETY APPROVALS**

IEC 60601-1 3rd Edition, Amend 1: UL/cUL, UL-EU, CB/CE, CSA C22.2 EN60601-1-2, 4<sup>th</sup> Ed, Class B EN 55011 (CISPR11), Class B; FCC Part 15, Class B; ICES-003 Issue 6, Class B

#### EMI/EMC

EN60601-1-2, 4th Edition, Class B

High Efficiency: 89% typ 4000VAC Isolation Size: 5.34"x2.59"x1.46" 135.6x65.8x37.1mm

Weight: 12.34oz/350g





## 65W DESKTOP EXTERNAL POWER ADAPTER FOR MEDICAL AND INDUSTRIAL APPLICATIONS

PARAMETERS EDP65 SERIES

23. 00 0220		
90-264 VAC		
47-63 (50/60 Hz Nom.)		
1.62A max at 100VAC 0.72A max at 240VAC		
100uA max at 240VAC		
See Selection Chart		
65W		
±5% Max		
±1% Max		
110-150%, Auto Recovery		
89% typ		
112-132%		
Auto Recovery		
110Vin, FL 4 ms		
±0.04%/°C		
100mV Pk-Pk max (< 48V) 150mV Pk-Pk max (>= 48V)		
4000VAC		
1500VAC		
50ΜΩ		
5.34" x 2.59" x 1.46" 135.6 x 65.8 x 37.1 mm		
12.34oz / 350g		
Desktop		

<sup>•\*\*</sup> Case size only

<sup>•</sup>All Specifications are typical at nominal input, full load, 25°C unless specified otherwise.

<sup>•\*</sup>These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long-term reliability. Operation under conditions other than the standard operating conditions is neither warrantied nor implied.

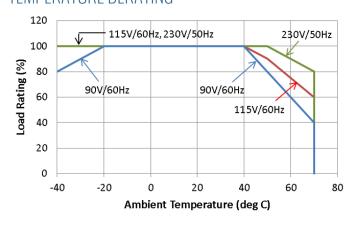




## 65W DESKTOP EXTERNAL POWER ADAPTER FOR MEDICAL AND INDUSTRIAL APPLICATIONS

SAFETY AND COMPLIANCE CERTIFICATIONS					
Safety Approvals	IEC 60601-1 3rd Ed, Amend 1: UL/cUL, UL-EU, CB/CE, CSA C22.2				
EMC Overall	EN60601-1-2, 4th Ed, Class B				
Conducted and Radiated Emissions	EN 55011 (CISPR11), Class B; FCC Part 15, Class B; ICES-003 Issue 6, Class B				
Harmonic Current	EN 61000-3-2, Class B				
Voltage Fluctuations	EN 61000-3-3				
ESD Immunity	EN 61000-4-2, Level 4				
RF Field Immunity	EN 61000-4-3, Level 2				
EFT Burst Immunity	EN 61000-4-4, Level 3				
Surge Immunity	EN 61000-4-5, Level 2				
Conducted Immunity	EN 61000-4-6, Level 2				
Magnet Field Immunity	EN 61000-4-8, Level 4				
Voltage Dips and Interruptions	EN 61000-4-11				
Case Flammability Rating	UL 94 V-1				
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	-25 to +40°C at Full Load, -40 to +70°C at Reduced Load See derating chart				
Cooling	Free Air Convection				
Storage Temperature*	-40 to +85°C				
Operating Humidity*	0% to 95%, non-condensing				
Operating Altitude	3000m				
Vibration	5G, 10 ~500Hz, 10min./1 cycle				
Drop Test	120cm, 1 ea. on six sides				

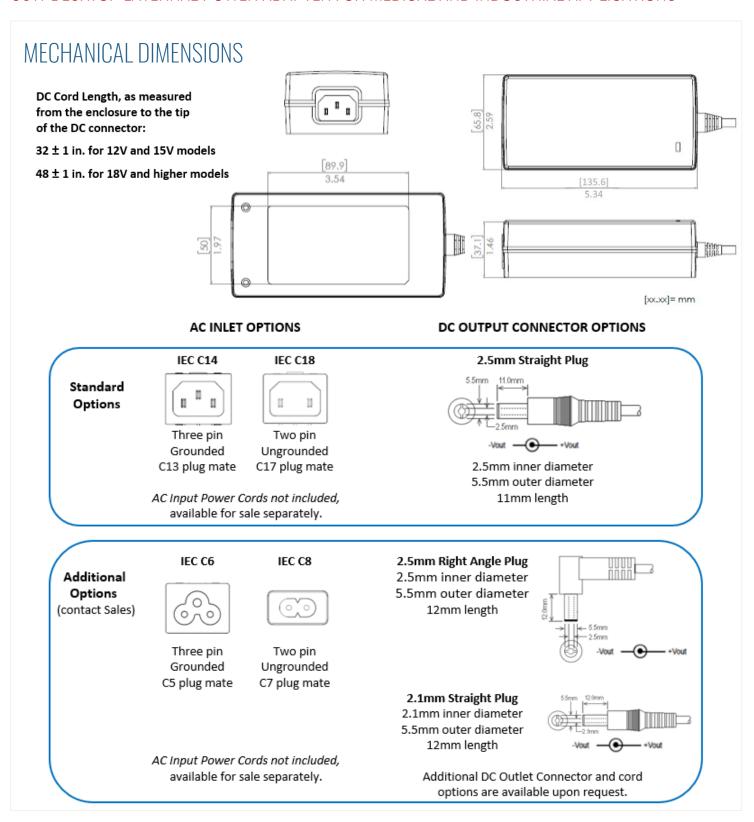
### TEMPERATURE DERATING







### 65W DESKTOP EXTERNAL POWER ADAPTER FOR MEDICAL AND INDUSTRIAL APPLICATIONS







## 65W DESKTOP EXTERNAL POWER ADAPTER FOR MEDICAL AND INDUSTRIAL APPLICATIONS

## PRODUCT MODELS WITH MEDICAL CERTIFICATIONS

MODEL	OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	LOAD REGULATION
Class I Models (with IEC C14 AC Inl				
EDP65-12-MB1-100	65W	12VDC	5.4A	±5%
EDP65-15-MB1-100	65W	15VDC	4.3A	±5%
EDP65-18-MB1-100	65W	18VDC	3.6A	±5%
EDP65-19-MB1-100	65W	29VDC	3.4A	±5%
EDP65-24-MB1-100	65W	24VDC	2.7A	±5%
EDP65-30-MB1-100	65W	30VDC	2.1A	±3%
EDP65-36-MB1-100	65W	36VDC	1.8A	±3%
EDP65-48-MB1-100	65W	48VDC	1.3A	±3%
EDP65-54-MB1-100	65W	54VDC	1.2A	±3%

MODEL	OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	LOAD REGULATION
Class II Models (with IEC C18 AC In				
EDP65-12-MB2-100	65W	12VDC	5.4A	±5%
EDP65-15-MB2-100	65W	15VDC	4.3A	±5%
EDP65-18-MB2-100	65W	18VDC	3.6A	±5%
EDP65-19-MB2-100	65W	29VDC	3.4A	±5%
EDP65-24-MB2-100	65W	24VDC	2.7A	±5%
EDP65-30-MB2-100	65W	30VDC	2.1A	±3%
EDP65-36-MB2-100	65W	36VDC	1.8A	±3%
EDP65-48-MB2-100	65W	48VDC	1.3A	±3%
EDP65-54-MB2-100	65W	54VDC	1.2A	±3%