

MEDICAL & HEALTHCARE AC/DC PRODUCT APPLICATION GUIDE



Series	General & input		Output single										Dual/ Triple	Standards						
	Connection options	Nominal Power* (W)	3.3 Vout	5 Vout	5.1 Vout	9 Vout	12 Vout	15 Vout	24 Vout	28 Vout	36 Vout	48 Vout		53 Vout	Additional (2nd) +5V output	Additional 3rd output	EN/IEC 60601-1 medical safety	EN 60601-1-2 integrated EMI filter	ISO 14971 risk management for medical	ISO 13485 quality management for medical
AC/DC power supplies, PCB mounted, fully encapsulated																				
TMF 05	THT	5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TMF 10	THT	10	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 15-D	THT	15	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 15-J	Receptacle	15	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TMF 20	THT	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TMW 24	Wire	24	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TMW 24P	THT	24	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TMF 30	THT	30	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 30-D	THT	30	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 30-J	Receptacle	30	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TMW 36	Wire	36	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TMW 36P	THT	36	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 40E-D	THT	40	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 40E-J	Receptacle	40	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 65E-D	THT	65	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 65E-J	Receptacle	65	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
AC/DC power supplies, enclosed																				
TPP 40	Screw-terminal	40	●	●	T	●	●	●	●	●	●	●	●	○	○	●	●	●	●	●
TPP 65	Screw-terminal	65	●	●	T	●	●	●	●	●	●	●	●	○	○	●	●	●	●	●
TPP 100	Screw-terminal	100	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 150	Screw-terminal	150	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 180-M	Screw-terminal	180	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 300-M	Screw-terminal	300	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 450-M	Screw-terminal	450	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 450B-M	Screw-terminal	450	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
AC/DC power supplies, open-frame																				
TPP 15A-J	Receptacle	15	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 15A-D	THT	15	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 30A-D	THT	30	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 30A-J	Receptacle	30	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 40A	Receptacle	40	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 65A	Receptacle	65	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 100A-J	Receptacle	100	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 150A-J	Receptacle	150	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 180A-M	Receptacle	180	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 300A-M	Receptacle	300	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 450A	Receptacle	450	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPP 450BA-M	Receptacle	450	●	●	T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

● = Specification fully applies
○ = Specification does not fully apply and/or applies to optional / on-demand products

C = Continuous short circuit protection with automatic recovery
L = Limited time short circuit protection with automatic recovery
T = When using output voltage adjustment ("trimming")

Features	Isolation	Measurements (mm)			Measurements (in)		
		Length (mm)	Width (mm)	Height (mm)	Length (in)	Width (in)	Height (in)
SCP (Short-Circuit Protection)							
OCL (Output Current Limitation)							
OVP (Overvoltage Protection)							
OTP (Overtemperature protection)							
Adjustable output voltage							
Sense input for accurate voltage at high power							
Remote control on/off ("REMOTE pin")							
Natural convection cooling							
Lowest operating temperature (°C)							
Highest operating temperature (°C)							
I/O Isolation test voltage* 60s (VAC)							
I/O Isolation working voltage 60s (VAC)							
Max. isolation capacitance (pF)							
Max. operating altitude (m)							
Max. leakage current (uA)							
Body floating (BF) ready							
Standby operation							
Means of protection							
Minimum clearance distance I/O (mm)							
Minimum creepage distance I/O (mm)							
Length (mm)							
Width (mm)							
Height (mm)							
Length (in)							
Width (in)							
Height (in)							

C = Continuous short circuit protection with automatic recovery
L = Limited time short circuit protection with automatic recovery
T = When using output voltage adjustment ("trimming")