

## TF30 20W-30W Single Output External Power **Test & Measurement/Industrial Series**



- Meets DoE Efficiency Level VI Requirements
  - No load input power
  - Average Efficiency
- Up to 30W of AC-DC Power
  - Universal Input 90-264Vac Input Range
  - Desktop and Wall-Plug versions
- Meets "Heavy Industrial" Levels of EN61000 EMC Requirements
- Meets EN55032/CISPR22 and FCC Part 15,109 Class B Conducted & Radiated Emissions, with 6db margin
- Approved to EN/IEC/UL60950-1, 2nd Ed., Am. 2
- E-cap life of >8 years
- >1,000,000 hours MTBF
- 3 Year Warranty



# Description

A high performance AC to DC external power supply family designed for test & measurement and industrial applications. The TE30A Series models are compliant with Efficiency Level VI requirements per U.S. Dept. of Energy, PLUS Heavy Industrial levels of various EN61000-4-x standards for EMC.

#### **Model Selection**

Model		Output	Output	Ripple &	Line	Load	Output	Input
Number	Volts	Current	Power	Noise <sup>1</sup>	Regulation	Regulation	Connector	Configuration
TE30A0503F01	5.0V	4.00A	20W	75mV pk-pk	±1%	±5%		
TE30A0903F01	9.0V	3.00A	27W	90mV pk-pk	±1%	±5%		
TE30A1203F01	12.0V	2.50A	30W	120mV pk-pk	±1%	±5%	2.5 x 5.5 x 9.5mm	Class I Desktop, IEC60320 C14 Receptacle
TE30A1503F01	15.0V	2.00A	30W	150mV pk-pk	±1%	±5%	Straight Barrel Type,	
TE30A1803F01	18.0V	1.67A	30W	180mV pk-pk	±1%	±5%	center positive	
TE30A2403F01	24.0V	1.33A	30W	240mV pk-pk	±1%	±5%	•	
TE30A4803F01	48.0V	0.63A	30W	480mV pk-pk	±1%	±5%		
TE30A0503N01	5.0V	4.00A	20W	75mV pk-pk	±1%	±5%		
TE30A0903N01	9.0V	3.00A	27W	90mV pk-pk	±1%	±5%		
TE30A1203N01	12.0V	2.50A	30W	120mV pk-pk	±1%	±5%	2.5 x 5.5 x 9.5mm	Class II Desktop,
TE30A1503N01	15.0V	2.00A	30W	150mV pk-pk	±1%	±5%	Straight Barrel Type,	IEC60320 C8
TE30A1803N01	18.0V	1.67A	30W	180mV pk-pk	±1%	±5%	center positive	Receptacle
TE30A2403N01	24.0V	1.33A	30W	240mV pk-pk	±1%	±5%		·
TE30A4803N01	48.0V	0.63A	30W	480mV pk-pk	±1%	±5%		
TE30A0503Q01	5.0V	4.00A	20W	75mV pk-pk	±1%	±5%		
TE30A0903Q01	9.0V	3.00A	27W	90mV pk-pk	±1%	±5%		
TE30A1203Q01	12.0V	2.50A	30W	120mV pk-pk	±1%	±5%	2.5 x 5.5 x 9.5mm	Class II Desktop, IEC60320 C18 Receptacle
TE30A1503Q01	15.0V	2.00A	30W	150mV pk-pk	±1%	±5%	Straight Barrel Type,	
TE30A1803Q01	18.0V	1.67A	30W	180mV pk-pk	±1%	±5%	center positive	
TE30A2403Q01	24.0V	1.33A	30W	240mV pk-pk	±1%	±5%		
TE30A4803Q01	48.0V	0.63A	30W	480mV pk-pk	±1%	±5%		
TE30A0503B01	5.0V	4.00A	20W	75mV pk-pk	±1%	±5%		
TE30A0903B01	9.0V	3.00A	27W	90mV pk-pk	±1%	±5%		Class II Wall-Plug,
TE30A1203B01	12.0V	2.50A	30W	120mV pk-pk	±1%	±5%	2.5 x 5.5 x 9.5mm	Interchangeable
TE30A1503B01	15.0V	2.00A	30W	150mV pk-pk	±1%	±5%	Straight Barrel Type,	Blades (North
TE30A1803B01	18.0V	1.67A	30W	180mV pk-pk	±1%	±5%	center positive	American Blade
TE30A2403B01	24.0V	1.33A	30W	240mV pk-pk	±1%	±5%		included) <sup>2</sup>
TE30A4803B01	48.0V	0.63A	30W	480mV pk-pk	±1%	±5%		
TE30A0503C01	5.0V	4.00A	20W	75mV pk-pk	±1%	±5%		
TE30A0903C01	9.0V	3.00A	27W	90mV pk-pk	±1%	±5%		
TE30A1203C01	12.0V	2.50A	30W	120mV pk-pk	±1%	±5%	2.5 x 5.5 x 9.5mm	Class II Wall-Plug,
TE30A1503C01	15.0V	2.00A	30W	150mV pk-pk	±1%	±5%	Straight Barrel Type,	Fixed North
TE30A1803C01	18.0V	1.67A	30W	180mV pk-pk	±1%	±5%	center positive	American Blades <sup>3</sup>
TE30A2403C01	24.0V	1.33A	30W	240mV pk-pk	±1%	±5%		
TE30A4803C01	48.0V	0.63A	30W	480mV pk-pk	±1%	±5%		

1. Measured at the output connector, with noise probe directly across output and load terminated with 0.1µF ceramic and 10µF low ESR capacitors. For 5V and 6V models, values listed The base of a the output connector, with holes proceeding a does output and bad eleminated with 0. µP ceranic and to µP tow ESR capacitors used at measurement point.
 Order blade kit KT-1027K for other blades (EU. UK, Australia)
 For EU fixed blades, replace "C" in the model number with "M", for UK blades, replace "C" with "G", for Australia blades, replace "C" with "H".
 All specifications are typical at nominal input, full load, at 25<sup>C</sup> C ambient unless noted.
 For Input Class I models: For AC GND connected to output common (-), insert a "B" in the part number where the "A" is located (TE30<u>B</u>1203F01).

Notes



# **General Specifications**

AC inputID0-200Vac, ±10%, 47-63Hz, 130Turn On TimeLest han Z00mS Bit1SVac, full load, 100Vac inputInput CurrenB4Vac, cold start: will not exceed 40AOverlemperature ProtectionWill shutdow upon an overlemperature condition, autorecovery.Input FueDA, 250VacOverload ProtectionStot 100% of rating, Hiccup ModeBetter Leskage CurrentDiput-GND:: <500µAG2264Vac; 60Hz, NC Duput-GND:: <500µAG2264Vac; 60Hz, NCShort Circup ProtectionHiccup Mode, auto recovery.Better Leskage CurrentDiput-GND:: <500µAG2264Vac; 60Hz, NC Duput-GND:: <500µAG2264Vac; 60Hz, NCShort Circup ProtectionHiccup Mode, auto recovery.Better US DOE Efficiency Level VI Average ProtectionDiput-Circup: : 1800Vac ProtectionIput-Circup: : 1800Vac ProtectionIput-Circup: : 1800Vac ProtectionNo Load Input Prove ProtectionStatety Standard ProtectionNCSAVULIEC 60996-1, 2nd Edition, AnoRipple and Neis Stot 000% of rating Stot 100% of rating Stot 000% of rating Stot					
Inrush Current264Vac, cold start: will not exceed 40AOvertemperature ProtectionWill shutdown upon an overtemperature condition, auto-recovery.Input Fuse2.0A, 250VacOverload Protection130 to 180% of rating, Hiccup ModeEarth Leakage CurrentInput-GND:-S00JA@226Vac, 60Hz, NC Output-GND:-S0NJA@226Vac, 60Hz, NCShort Circuit ProtectionHiccup Mode, auto recovery.Efficiency CurrentVersion and a contemperature officiency levelsShort Circuit ProtectionHiccup Mode. See model chart above for Imput-GND: 1500Vac Curput-GND: 1500VacOutput Power20 to 30W continuous – See models chart for specific voltage model ratings.IsolationImput-GND: 1500Vac Curput-GND: 1500Vac Curput-GND: 1500VacNo Load Input Power0.1W pr DoE Efficiency Level VI RequirementsSafety StandardsENCSA/UL/IEC 60950-1, 2nd Edition, An 2 20°C to +70°C Start Up at -4V°C, full load, (wernep peido below al parameter and +40°C, full load, (wernep peido below al parameter and +50% load step over the arge of 5% to 10% or rate load, JAIAC DeratingSee rating Charts below.Output Voltage RegulationSee models chart on pg 1.Storage Temperature DeratingSee Dotom. Non-operating: 500 to 4,000 ft.Transient RegulationSee models chart on pg 1.Attitude Coresting: Load starts below.Operating: to 5000m. Non-operating: 500 to 4,000 ft.Transient rate of 1 colave / minutes, Vibration time of 10 wers, 3 axes and Sine wevefor	AC Input	100-240Vac, ±10%, 47-63Hz, 1∅	Turn On Time	Less than 700mS @115Vac, full load	
Intrustic duitedin2444 dL, duit staft, with the EXBERD 40XProtectioncondition, auto-recovery.Input Fuse2.0A, 250VacOverload Protection130 to 180%, of rating, Hiccup ModeEarth Leakage CurrentInput-GND: <500JA@264Vac, 60Hz, NCShort Circuit ProtectionHiccup Mode, auto recovery.EfficiencyMeets US DoE Efficiency Level VI Average efficiency levelsOvervoltage ProtectionHiccup Mode. See model chart above for tip ranges.Output Power20 to 30W continuous – See models chart for specific voltage model ratings.Isolation Input-Court. 1500Vac Duput-Court. 1500Vac Duput-Ground: 1500Vac Duput-Ground: 1500Vac Output-Court 1500Vac Duput-Ground: 1500Vac Duput-Ground: 1500VacNo Load Input Power20 to 30W continuous – See models chart for specific voltage model ratings.Safety StandardsENCSA/UL/IEC 60950-1, 2nd Edition, Am 2Ripple and NoiseSee models chart on pg 1.Safety StandardsENCSA/UL/IEC 60950-1, 2nd Edition, Am 2Output VoltageSee models chart on pg 1.Temperature DeratingSafety StandardsOutput VoltageSee models chart on pg 1.Storage Temperature Derating-40°C to +85°CTransient range of 5% to 100% of rated load, MiArc 0.24%, Max. voltage deviation is +/3.5%.Storage Temperature Storage Temperature-40°C to +85°COperating: 0.003g/Hz, 1.5gms overall, 3 axes, 10 min/axis, 1-500Hz. Inseed: and maxis, 1-500Hz. Non-Operating: -500 to 40,000 ft.Shock Stolal Non-Operating: Half-sine, 20ghk, 10mS, 3 axes, s 5hooks tolal Non-Operating: Half-sine, werdorm, impact acs 5 shooks tolal Non-O	Input Current	115Vac: 1.2A, 230Vac: 0.6A	Hold-up Time	20mS min., at full Load, 100Vac input	
Learth Leakage CurrentIput-CND.<<60/LAG264Vac, 60Hz, NC	Inrush Current	264Vac, cold start: will not exceed 40A			
CurrentOutput-GND: <4mA & 264Vac; 60Hz; NC	Input Fuse	2.0A, 250Vac	<b>Overload Protection</b>	130 to 180% of rating, Hiccup Mode	
Enticiency levelsof the protectiontrip ranges.Output Power20 to 30W continuous – See models chart for specific voltage model ratings.IsolationInput-Otput: 4000Vac input-Ground: 1500Vac Output-Ground: 1500Vac DisoVacNo Load Input Power<0.1W per DoE Efficiency Level VI RequirementsSafety StandardsEN/CSA/UL/IEC 60950-1, 2nd Edition, Am 2Ripple and NoiseSee models chart on pg 1.Operating Temperature Derating-20°C to +70°C Start Up at -40°C, ful load, (warmap period buffer all parameters are within published specifications).Output VoltageSee models chart on pg 1.Temperature DeratingSee Derating Charts below.Output VoltageSee models chart on pg 1.Storage Temperature Deratingsee Derating Charts below.Solups response time for return to within 0.5% of final value for any 50% load step over the range 0.5% to 100% of rated load, N/AL Course Vis. Max. voltage deviation is +1-3.5%.Storage Temperature Storage TemperatureOperating: to 5000m. Non-operating: -500 to 40,000 ft.Drop Test1.4m from table top to wooden platform, 4 fraces. 10 min/axis, 1-500Hz. Non-Operating: -500 to 40,000 ft.Operating: Half-sine, 20gpk, 10mS, 3 axes, 6 Shocks total Non-Operating: Half-sine, 20gpk, 10mS, 3 axes, 6 Shocks 3 for each of the the eaxisDrop Test1.4m from table top to wooden platform, 4 frequency/acceleration: 10-500Hz				Hiccup Mode, auto recovery.	
Output Power20 to 300 continuous - See models chant or specific voltage model ratings.IsolationInput-Ground: 1500Vac Output-Ground: 1500Vac Output-Ground: 1500VacNo Load Input Power<0.1W per DoE Efficiency Level VISafety StandardsEN/CSA/UL/IEC 60950-1, 2nd Edition, Am 2Ripple and NoiseSee models chart on pg 1.Operating Temperature $20^{\circ}C$ to $+70^{\circ}C$ Start Up at -40°C, full load, (warmup period before all parameters are within published specifications).Output VoltageSee models chart on pg 1.Temperature DeratingSee Derating Charts below.Transient ResponseSolus response time for return to within 0.5% of final value for any 50% load step over the range of 5% to 10% of rated load, Al/At 2.2A/us. Max. voltage deviation is +/-3.5%.Storage Temperature Operating: to 5000m. Non-operating: 500 to 40,000 ft.Drop Test1.4m from table top to wooden platform, 4 faces.Relative Humidity axes, 10 min/axis, 1-500Hz. Non-Operating: Hall-sine, 20gpk, 10mS, 3 axes, 6 shocks total Non-Operating: Hall-sine, 20gpk, 10mS, 3 axe	Efficiency				
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Output voitageSee models chart on pg 1.DeratingSee Derating charts below.Transient Response500µs response time for return to within 0.5% of final value for any 50% load step over the range of 5% to 100% of rated load, Δi/Δt 0.2A/µs. Max. voltage deviation is +/-3.5%.Storage Temperature-40°C to +85°CRegulationSee models chart on pg 1.AltitudeOperating: to 5000m. Non-operating: -500 to 40,000 ft.Drop Test1.4m from table top to wooden platform, 4 faces.Relative Humidity5% to 95%, non-condensingOperating: 0.003g/Hz, 1.5grms overall, 3 axes, 10 min/axis, 1-500Hz. Non-Oper: random waveform, 3 minutes per axis, 3 axes and Sine waveform, Vib. rate of 1 octave / minutes, Vibration time of 10 sweeps / axes, 3 axesOperating: Number of shocks: 3 for each of the three axisDimensionsSee outline drawingsMTBF>1,000,000 hours, full load, 110 & 220Vac input, 25°C amb., per Telcordia 332 Issue 6.Weight250gE-Cap Life>8 year life based on calculations at 115Vac/60Hz & 230Vac/50Hz, ambient 25°C at 24 hrs per day, 365 days/year, 6 power up	Ripple and Noise	See models chart on pg 1.		Start Up at -40°C, full load, (warmup period before	
Transient Responseof final value for any 50% load step over the range of 5% to 100% of rated load, $\Delta i \Delta t <$ $0.2A/\mus. Max. voltage deviation is +/-3.5%.$ Storage Temperature-40°C to +85°CRegulationSee models chart on pg 1.AltitudeOperating: to 5000m. Non-operating: -500 to 40,000 ft.Drop Test1.4m from table top to wooden platform, 4 faces.Relative Humidity5% to 95%, non-condensingOperating: 0.003g/Hz, 1.5gms overall, 3 axes, 10 min/axis, 1-500Hz. Non-Oper: random waveform, 3 minutes per axis, 3 axes and Sine waveform, vib. frequency/acceleration: 10-500Hz/1g, sweep rate of 1 octave / minutes, Vibration time of 10 sweeps / axes, 3 axesMTBF>1,000,000 hours, full load, 110 & 220Vac input, 25°C amb., per Telcordia 332 lsuse 6.DimensionsSee outline drawingsE-Cap Ltif>8 year life based on calculations at at 24 hrs per day, 365 days/year, 6 power up	Output Voltage	See models chart on pg 1.		See Derating Charts below.	
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Diop restfaces.Relative Humiluity5% to 95%, Holi-ColidensingVibrationOperating: 0.003g/Hz, 1.5grms overall, 3 axes, 10 min/axis, 1-500Hz. Non-Oper.: random waveform, 3 minutes per axis, 3 axes and Sine waveform, Vib. frequency/acceleration: 10-500Hz/1g, sweep rate of 1 octave / minutes, Vibration time of 10 sweeps / axes, 3 axesOperating: Half-sine, 20gpk, 10mS, 3 axes, 6 shocks total Non-Operating: Half-sine waveform, impact acceleration of 100G, Pulse duration of 6 mS, Number of shocks: 3 for each of the three axisDimensionsSee outline drawingsMTBFWeight250gE-Cap Life>8 year life based on calculations at 115Vac/60Hz & 230Vac/50Hz, ambient 25°C at 24 hrs per day, 365 days/year, 6 power up	Regulation	See models chart on pg 1.	Altitude		
Vibrationaxes, 10 min/axis, 1-500Hz. Non-Oper.: random waveform, 3 minutes per axis, 3 axes and Sine waveform, Vib. frequency/acceleration: 10-500Hz/1g, sweep rate of 1 octave / minutes, Vibration time of 10 sweeps / axes, 3 axesShockOperating: Half-sine, 20gpk, 10mS, 3 axes, 6 shocks total Non-Operating: Half-sine waveform, impact acceleration of 100G, Pulse duration of 6 mS, Number of shocks: 3 for each of the three axisDimensionsSee outline drawingsMTBF>1,000,000 hours, full load, 110 & 220Vac input, 25°C amb., per Telcordia 332 Issue 6.Weight250gE-Cap Life>8 year life based on calculations at 115Vac/60Hz & 230Vac/50Hz, ambient 25°C at 24 hrs per day, 365 days/year, 6 power up	Drop Test		Relative Humidity	5% to 95%, non-condensing	
DimensionsSee outline drawingsMTBFweight250gE-Cap Life>8 year life based on calculations at 115Vac/60Hz & 230Vac/50Hz, ambient 25°C at 24 hrs per day, 365 days/year, 6 power up	Vibration	axes, 10 min/axis, 1-500Hz. Non-Oper.: random waveform, 3 minutes per axis, 3 axes and Sine waveform, Vib. frequency/acceleration: 10-500Hz/1g, sweep rate of 1 octave / minutes, Vibration time of 10	Shock	6 shocks total Non-Operating: Half-sine waveform, impact acceleration of 100G, Pulse duration of 6 mS, Number of shocks: 3 for each of the	
Weight     250g     E-Cap Life     115Vac/60Hz & 230Vac/50Hz, ambient 25°C at 24 hrs per day, 365 days/year, 6 power up	Dimensions	See outline drawings	MTBF		
specifications are typical at nominal input, full load, at 25°C ambient unless noted.			E-Cap Life	115Vac/60Hz & 230Vac/50Hz, ambient 25°C at 24 hrs per day, 365 days/year, 6 power up	

All specifications are typical at nominal input, full load, at 25°C ambient unless noted.



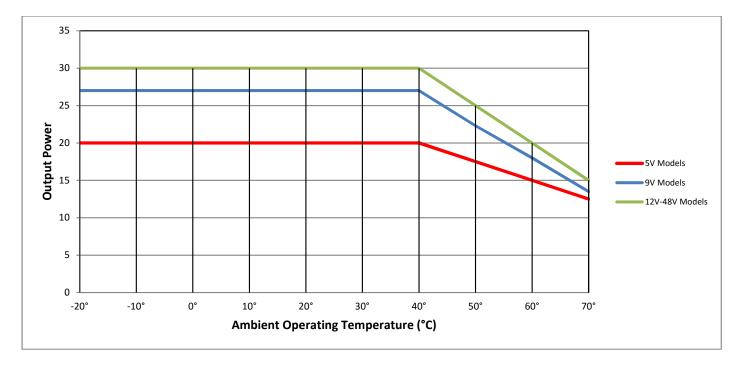
#### **EMI/EMC** Compliance

Conducted Emissions:	EN55032/CISPR22 Class B, FCC Part 15, Class B: 6db margin typ, at 115 and 230Vac			
Radiated Emissions:	EN55032/CISPR22 Class B, FCC Part 15, Class B: 3db margin typ, at 115 and 230Vac			
Common Mode Noise:	High Frequency (100kHz-20MHz): <40mA pk-pk			
Electro-Static Discharge (ESD) Immunity on Power ports:	EN55024/IEC61000-4-2, Level 4: +/- 8kV contact, +/- 15kV air, Criteria A			
Radiated RF EM Fields Susceptibility	EN55022/EN61000-4-3, 10V/m, 80MHz-2.7GHz, 80% AM at 1kHz			
Electrical Fast Transients (EFT) /Bursts:	EN55024/IEC61000-4-4, Level 4, +/- 4.4kV, 100Khz rep rate, 40A, Criteria A			
Surges, Line to Line (Diff Mode) and Line to GND (CMN Mode)	EN55024/IEC61000-4-5, Level 4, +/-2kV DM, +/-4kV CM, Criteria A			
Conducted Disturbances induced by RF Fields	EN55022/IEC61000-4-6, 3.6V/m – Level 4, 0.15 to 80Mhz; and 12V/m) in ISM and amateur radio bands between 0.15Mhz and 80Mhz, 80% AM at 1KHz			
Rated Power frequency magnetic fields	EN55024/IEC1000-4-8, Level 4: 30 A/m, 50/60 Hz			
Voltage Interruptions, Dips, Sags & Surges	EN55024/IECEN61000-4-11: 100% dip for 20mS, Criteria A 100% dip for 5000mS (250/300 cycles), Criteria B 60% dip for 100mS, Criteria B 30% dip for 500mS, Criteria A			
Harmonic Current Emissions	EN55011/EN61000-3-2, Class A			
Flicker Test	EN61000-3-3			
All specifications are typical at nominal input, full load, at 25°C ambient unless noted.				

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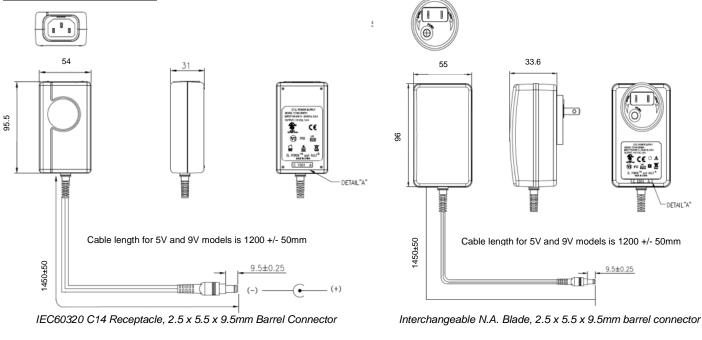
#### **Output Power Derating**

Output power is derated above 40°C as follows, for operation over the entire AC input range (90-264Vac).





#### **Mechanical Drawing**



Notes: 1. All dimensions in mm.

2. Interchangeable blade models come with North American blade fitted. For other blades (EU, UK, Aust.) order blade kit KT1027K.

## **Connector Information**

Standard models include a 2.5 x 5.5 x 9.5mm straight barrel type connector (Ault #3), center positive. Other standard options are listed below. The "03" in the standard model number is replaced by the applicable digits below:

Connector No.	Description		Connector No.	Description	
02	2.1 x 5.5 x 9.5mm straight barrel plug - Center Positive		44	2.1 x 5.5 x 9.5mm straight barrel plug, locking - Center Positive	
03	2.5 x 5.5 x 9.5mm straight barrel plug - Center Positive (Standard Models)		45	2.5 x 5.5 x 9.5mm straight barrel plug, locking - Center Positive	
12	5 pin DIN-180 male connector (Pins 3, 5 = (+), pins 1, 2, 4 = (-))		48	3 pin Snap n Lock, Kycon Kpp-3P or equivalent(Pin 1 = (+), pin 2 = (-))	
22	6 pin DIN male connector(Pins 1, 2 = (+), pins 4, 5 = (-))		49	4 pin Snap n Lock, Kycon Kpp-4P or equivalent(Pins 1, 3 = (+), pins 2, 4 = (-))	
23	8 pin DIN male connector(Pins 3, 7 = (+), pins 1, 4, 6, 8 = (-), shell = FG))		51	6 pin Minifit - Molex 39-01-2060 or equivalent (Pins 1, 4 = (+), pins 3, 6 = (-))	
32	9 pin "D" type, female (Pin 8 = (+), pin 5 = (-), all others = NC)	•	65	Stripped and Tinned Leads	~
33	2.5 x 5.5 x 12.5mm straight barrel plug - Center Positive		70	2.1 x 5.5 x 11mm right angle barrel plug (high retention) - Center Positive	-
40	2.1 x 5.5 x 9.5mm right angle barrel plug (high retention) - Center Positive		71	2.5 x 5.5 x 11mm right angle barrel plug (high retention) - Center Positive	-
41	2.5 x 5.5 x 9.5mm right angle barrel plug (high retention) - Center Positive		72	2.1 x 5.5 x 9.5mm straight barrel plug (high retention, no spark) - Center Positive	
42	2.1 x 5.5 x 11mm straight barrel plug (high retention) - Center Positive		73	2.5 x 5.5 x 9.5mm straight barrel plug (high retention, no spark) - Center Positive	
43	2.5 x 5.5 x 11mm straight barrel plug (high retention) - Center Positive		74	EIAJ#S style connector - Center Positive	



#### **Efficiency Level VI Information:**

Single-Volta	ge External AC-DC Power Su	ıpply, Basic-Voltage		
Nameplate Output Power (Pout)	Minimum Average Efficiency in Active Mode (expressed as a decimal)	Maximum Power in No- Load Mode [W]		
$P_{out} \le 1 W$	$\geq$ 0.5 × P <sub>out</sub> + 0.16	$\leq 0.100$		
$1 \text{ W} < P_{out} \le 49 \text{ W}$	$ \begin{array}{c} \geq 0.071 \times ln(P_{out}) - 0.0014 \\ \times P_{out} + 0.67 \end{array} $	≤ 0.100	TE30A Series	
49 W < $P_{out} \le 250$ W	$\geq 0.880$	≤ 0.210	9V-48V models	
$P_{out} > 250 W$	$\geq 0.875$	$\leq 0.500$		
Single-Voltage I	External AC-DC Power Supp	ly, Low-Voltage		
Nameplate Output Power (Pout)	Minimum Average Efficiency in Active Mode (expressed as a decimal)	Maximum Power in No- Load Mode [W]		
$P_{out} \le 1 \ W$	$\geq 0.517 \times P_{out} + 0.087$	$\leq 0.100$		
$1 \mathrm{W} < \mathrm{P}_{\mathrm{out}} \le 49 \mathrm{W}$	$ \begin{array}{l} \geq 0.0834 \times ln(P_{out}) - \\ 0.0014 \times P_{out} + 0.609 \end{array} $	≤ 0.100	TE30A Series	
49 W < $P_{out} \le 250$ W	≥ 0.870	≤ 0.210	5V models	
$P_{out} > 250 W$	$\geq$ 0.875	$\leq$ 0.500		

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