

20W-30W Single Output External Power Industrial Grade















FEATURES AND BENEFITS

Meets DoE efficiency level VI requirements

- No load input power
- Average efficiency

Up to 30W of AC-DC power

Universal input 90-264 VAC input range

■ Desktop and Wall-plug versions

Meets "Heavy Industrial" levels of EN61000 EMC requirements

Note: *IP22 does not include interchangeable blade versions.

Meets EN55032/CISPR22 and FCC Part 15.109 Class B conducted & radiated emissions, with 6db margin

Approved to EN/CSA/IEC/UL62368-1

E- cap life of >8 years

>10,00,000 hours MTBF

3 years warranty

MODEL SELECTION

| TE30A1503F01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% Straight barrel type, Center positive IEC60320 C14 receptacle TE30A1803F01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403F01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% TE30A4803F01 48.0V 0.63 30W 480mV pk-pk ±1% ±5% TE30A0503N01 5.0V 4.00A 20W 75mV pk-pk ±1% ±5% TE30A0903N01 9.0V 3.00 27W 90mV pk-pk ±1% ±5% TE30A1203N01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% | Model Number | Volts | Output Current | Output Power | Ripple & Noise ¹ | Line Regulation | Load Regulation | Output Cable & Connector | Input Configuration |
|--|--------------|-------|-------------------|-----------------|--------------------------------|--------------------|--------------------|-----------------------------|------------------------|
| TE30A1203F01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% 2.5 x 5.5 x 9.5mm Class I Desktop. IEC60320 C14 TE30A1503F01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% 2.5 x 5.5 x 9.5mm Class I Desktop. IEC60320 C14 TE30A1803F01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% 2.5 x 5.5 x 9.5mm Center positive Class I Desktop. IEC60320 C14 receptacle TE30A4803F01 48.0V 0.63 30W 480mV pk-pk ±1% ±5% 4.00 4.00A 20W 75mV pk-pk ±1% ±5% 4.00 4.00A 20W 75mV pk-pk ±1% ±5% 4.00 4.00A 2.0W 75mV pk-pk ±1% ±5% 4.00A 4.00A 2.0W 75mV pk-pk ±1% ±5% 2.5 x 5.5 x 9.5mm Class II Desktop E1% ±5% 2.5 x 5.5 x 9.5mm Class II Desktop E1% ±5% 2.5 x 5.5 x 9.5mm Center positive Class II Desktop E1% ±5% 2.5 x 5.5 x 9.5mm Center positive Class II | TE30A0503F01 | 5.0V | 4.00 | 20W | 75mV pk-pk | ±1% | ±5% | | |
| TE30A1503F01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% Straight barrel type, Center positive TE30A2403F01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403F01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% TE30A0503N01 5.0V 4.00A 20W 75mV pk-pk ±1% ±5% TE30A1203N01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1503N01 15.0V 2.00 30W 150mV pk-pk ±1% ±5% TE30A1803N01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403N01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% TE30A203001 5.0V 4.00 20W 75mV pk-pk ±1% ±5% TE30A203001 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1503N01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A203001 24.0V 1.33 30W 240mV pk-pk ±1% ±5% TE30A0503Q01 5.0V 4.00 20W 75mV pk-pk ±1% ±5% TE30A0503Q01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1503Q01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1503Q01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1503Q01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% TE30A1503Q01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A1503Q01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% | TE30A0903F01 | 9.0V | 3.00 | 27W | 90mV pk-pk | ±1% | ±5% | | |
| TE30A1503F01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% Straight barrel type, Center positive IEC60320 C14 receptacle TE30A1803F01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% Ecnter positive IEC60320 C14 receptacle TE30A4803F01 48.0V 0.63 30W 480mV pk-pk ±1% ±5% ±5% ±5% ±1% ±5% ±5% ±1% ±5% ±5% ±1% ±5% ±5% ±5% ±1% ±5% ±5% ±5% ±1% ±5% | TE30A1203F01 | 12.0V | 2.50 | 30W | 120mV pk-pk | ±1% | ±5% | 2 5 v 5 5 v 0 5mm | |
| TE30A1803F01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403F01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% TE30A4803F01 48.0V 0.63 30W 480mV pk-pk ±1% ±5% TE30A0503N01 5.0V 4.00A 20W 75mV pk-pk ±1% ±5% TE30A1203N01 9.0V 3.00 27W 90mV pk-pk ±1% ±5% TE30A1503N01 15.0V 2.00 30W 150mV pk-pk ±1% ±5% TE30A1803N01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403N01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% TE30A4803N01 48.0V 0.63A 30W 480mV pk-pk ±1% ±5% TE30A4903001 5.0V 4.00 20W 75mV pk-pk ±1% ±5% TE30A1203Q01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% | TE30A1503F01 | 15.0V | 2.00A | 30W | 150mV pk-pk | ±1% | ±5% | Straight barrel type, | |
| TE30A4803F01 48.0V 0.63 30W 480mV pk-pk ±1% ±5% TE30A0503N01 5.0V 4.00A 20W 75mV pk-pk ±1% ±5% TE30A1203N01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1503N01 15.0V 2.00 30W 150mV pk-pk ±1% ±5% TE30A1803N01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403N01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% TE30A0503Q01 5.0V 4.00 20W 75mV pk-pk ±1% ±5% TE30A0503Q01 5.0V 4.00 20W 75mV pk-pk ±1% ±5% TE30A1203Q01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1503Q01 15.0V 2.00 30W 150mV pk-pk ±1% ±5% TE30A1503Q01 15.0V 4.00 20W 75mV pk-pk ±1% ±5% TE30A1203Q01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1503Q01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% TE30A1503Q01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% TE30A1803Q01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403Q01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% TE30A2403Q01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% TE30A2403Q01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% | TE30A1803F01 | 18.0V | 1.67 | 30W | 180mV pk-pk | ±1% | ±5% | Center positive | receptacle |
| TE30A0503N01 5.0V 4.00A 20W 75mV pk-pk ±1% ±5% TE30A1203N01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1503N01 15.0V 2.00 30W 150mV pk-pk ±1% ±5% TE30A1803N01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A4803N01 48.0V 0.63A 30W 480mV pk-pk ±1% ±5% TE30A0503Q01 5.0V 4.00 20W 75mV pk-pk ±1% ±5% TE30A1203Q01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1203Q01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1503Q01 15.0V 2.00 30W 120mV pk-pk ±1% ±5% TE30A1503Q01 15.0V 2.00 30W 120mV pk-pk ±1% ±5% TE30A1503Q01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% TE30A1503Q01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% TE30A1203Q01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403Q01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% | TE30A2403F01 | 24.0V | 1.33 | 30W | 240mV pk-pk | ±1% | ±5% | | |
| TE30A0903N01 9.0V 3.00 27W 90mV pk-pk ±1% ±5% TE30A1203N01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1503N01 15.0V 2.00 30W 150mV pk-pk ±1% ±5% TE30A2403N01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403N01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% TE30A0503Q01 5.0V 4.00 20W 75mV pk-pk ±1% ±5% TE30A1203Q01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1203Q01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% TE30A1203Q01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% TE30A1203Q01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A1203Q01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403Q01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% | TE30A4803F01 | 48.0V | 0.63 | 30W | 480mV pk-pk | ±1% | ±5% | | |
| TE30A1203N01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1803N01 15.0V 2.00 30W 150mV pk-pk ±1% ±5% TE30A2403N01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403N01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% TE30A2403N01 48.0V 0.63A 30W 480mV pk-pk ±1% ±5% TE30A0503Q01 5.0V 4.00 20W 75mV pk-pk ±1% ±5% TE30A0903Q01 9.0V 3.00 27W 90mV pk-pk ±1% ±5% TE30A1203Q01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1503Q01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% TE30A1503Q01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403Q01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% | TE30A0503N01 | 5.0V | 4.00A | 20W | 75mV pk-pk | ±1% | ±5% | | |
| TE30A1503N01 15.0V 2.00 30W 150mV pk-pk ±1% ±5% Straight barrel type, Center positive receptacle TE30A2403N01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A4803N01 48.0V 0.63A 30W 480mV pk-pk ±1% ±5% TE30A0503Q01 5.0V 4.00 20W 75mV pk-pk ±1% ±5% TE30A0903Q01 9.0V 3.00 27W 90mV pk-pk ±1% ±5% TE30A1203Q01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1503Q01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% TE30A1803Q01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403Q01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% | TE30A0903N01 | 9.0V | 3.00 | 27W | 90mV pk-pk | ±1% | ±5% | | |
| TE30A1503N01 15.0V 2.00 30W 150mV pk-pk ±1% ±5% Straight barrel type, Center positive IEC60320 C8 receptacle TE30A1803N01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A4803N01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% TE30A4803N01 48.0V 0.63A 30W 480mV pk-pk ±1% ±5% TE30A0503Q01 5.0V 4.00 20W 75mV pk-pk ±1% ±5% TE30A1203Q01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1503Q01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% TE30A1803Q01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403Q01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% | TE30A1203N01 | 12.0V | 2.50 | 30W | 120mV pk-pk | ±1% | ±5% | 2 5 v 5 5 v 0 5mm | |
| TE30A1803N01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403N01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% TE30A4803N01 48.0V 0.63A 30W 480mV pk-pk ±1% ±5% TE30A0503Q01 5.0V 4.00 20W 75mV pk-pk ±1% ±5% TE30A0903Q01 9.0V 3.00 27W 90mV pk-pk ±1% ±5% TE30A1203Q01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1503Q01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% TE30A1803Q01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403Q01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% TE30A2403Q01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% | TE30A1503N01 | 15.0V | 2.00 | 30W | 150mV pk-pk | ±1% | ±5% | Straight barrel type, | |
| TE30A4803N01 48.0V 0.63A 30W 480mV pk-pk ±1% ±5% TE30A0503Q01 5.0V 4.00 20W 75mV pk-pk ±1% ±5% TE30A0903Q01 9.0V 3.00 27W 90mV pk-pk ±1% ±5% TE30A1203Q01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1503Q01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% TE30A1803Q01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403Q01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% | TE30A1803N01 | 18.0V | 1.67 | 30W | 180mV pk-pk | ±1% | ±5% | Center positive | |
| TE30A0503Q01 5.0V 4.00 20W 75mV pk-pk ±1% ±5% TE30A0903Q01 9.0V 3.00 27W 90mV pk-pk ±1% ±5% TE30A1203Q01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1503Q01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% TE30A1803Q01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403Q01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% | TE30A2403N01 | 24.0V | 1.33 | 30W | 240mV pk-pk | ±1% | ±5% | | |
| TE30A0903Q01 9.0V 3.00 27W 90mV pk-pk ±1% ±5% TE30A1203Q01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1503Q01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% TE30A1803Q01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403Q01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% | TE30A4803N01 | 48.0V | 0.63A | 30W | 480mV pk-pk | ±1% | ±5% | | |
| TE30A1203Q01 12.0V 2.50 30W 120mV pk-pk ±1% ±5% TE30A1503Q01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% 2.5 x 5.5 x 9.5mm Straight barrel type, Center positive Class II Desktop, Straight barrel type, Center positive Center positive Center positive Center positive receptacle | TE30A0503Q01 | 5.0V | 4.00 | 20W | 75mV pk-pk | ±1% | ±5% | | |
| TE30A1503Q01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% Straight barrel type, Center positive Class II Desktop, Straight barrel type, Center positive TE30A1803Q01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403Q01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% | TE30A0903Q01 | 9.0V | 3.00 | 27W | 90mV pk-pk | ±1% | ±5% | | |
| TE30A1503Q01 15.0V 2.00A 30W 150mV pk-pk ±1% ±5% Straight barrel type, Center positive IEC60320 C18 TE30A1803Q01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% TE30A2403Q01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% | TE30A1203Q01 | 12.0V | 2.50 | 30W | 120mV pk-pk | ±1% | ±5% | | |
| TE30A1803Q01 18.0V 1.67 30W 180mV pk-pk ±1% ±5% Center positive receptacle TE30A2403Q01 24.0V 1.33 30W 240mV pk-pk ±1% ±5% | TE30A1503Q01 | 15.0V | 2.00A | 30W | 150mV pk-pk | ±1% | ±5% | Straight barrel type, | |
| | TE30A1803Q01 | 18.0V | 1.67 | 30W | 180mV pk-pk | ±1% | ±5% | | |
| TE30A4803Q01 48.0V 0.63 30W 480mV pk-pk ±1% ±5% | TE30A2403Q01 | 24.0V | 1.33 | 30W | 240mV pk-pk | ±1% | ±5% | | |
| | TE30A4803Q01 | 48.0V | 0.63 | 30W | 480mV pk-pk | ±1% | ±5% | | |

20W-30W Single Output External Power Industrial Grade

MODEL SELECTION

| Model Number | Volts | Output Current | Output Power | Ripple & Noise ¹ | Line Regulation | Load Regulation | Output Cable & Connector | Input Configuration |
|--------------|-------|-------------------|-----------------|--------------------------------|--------------------|--------------------|-----------------------------|---|
| 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, Interchangeable blades (North American blade included) ² |
| TE30A1203B01 | 12.0V | 2.50A | 30W | 120mV pk-pk | ±1% | ±5% | 2.5 x 5.5 x 9.5mm | |
| TE30A1503B01 | 15.0V | 2.00A | 30W | 150mV pk-pk | ±1% | ±5% | Straight barrel type, | |
| TE30A1803B01 | 18.0V | 1.67A | 30W | 180mV pk-pk | ±1% | ±5% | Center positive | |
| TE30A2403B01 | 24.0V | 1.33A | 30W | 240mV pk-pk | ±1% | ±5% | - | |
| TE30A4803B01 | 48.0V | 0.63A | 30W | 480mV pk-pk | ±1% | ±5% | - | |
| TE30A0503C01 | 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, Fixed North American blades³ |
| TE30A1203C01 | 12.0V | 2.50A | 30W | 120mV pk-pk | ±1% | ±5% | 2.5 x 5.5 x 9.5mm | |
| TE30A1503C01 | 15.0V | 2.00A | 30W | 150mV pk-pk | ±1% | ±5% | Straight barrel type, | |
| TE30A1803C01 | 18.0V | 1.67A | 30W | 180mV pk-pk | ±1% | ±5% | Center positive | |
| TE30A2403C01 | 24.0V | 1.33A | 30W | 240mV pk-pk | ±1% | ±5% | | |
| TE30A4803C01 | 48.0V | 0.63A | 30W | 480mV pk-pk | ±1% | ±5% | | |

Notes: 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 are typical, 100mV pk-pk maximum with 0.1µF ceramic and 47µF low ESR capacitors used at measurement point.

- 2. Order blade k replace "C" in the model number with "M", for UK blades, replace "C" with "G", for Australia blades, replace "C" with "H".
- 3. All specifications are typical at nominal input, full load, at 25°C ambient unless noted.
- 4. For Input Class I models: For AC GND connected to output common (-), insert a "B" in the part number where the "A" is located (TE30B1203F01).

INPUT

| AC Input | 100-240VAC, ±10%, 47-63Hz, 1Ø |
|------------------------|---|
| Input Current | 115VAC: 1.2A, 23VAC: 0.6A |
| Inrush Current | 264VAC, cold start: will not exceed 40A |
| Input Fuses | 2.0A, 250VAC |
| Leakage Current | Input-GND: <500μA @ 264VAC, 60Hz, NC Output-GND: <4mA @ 264VAC, 60Hz, NC |
| Efficiency | Meets US DoE efficiency level VI average efficiency levels |
| No Load Input Power | <0.1W per DoE efficiency level VI requirements |

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

OUTPUT

| Turn On Time | Less than 700ms @115VAC, Full load |
|--------------------|--|
| Hold-Up Time | 20ms at full load, 100VAC input |
| Output Power | 20 to 30W continuous - See models chart for specific voltage model ratings |
| Output Voltage | See models chart on pg 1 |
| Ripple and Noise | See models chart on pg 1 |
| Transient Response | 500 μ s 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, $\Delta i/\Delta t < 0.2A/\mu s$ Max voltage deviation is +/-3.5% |
| Regulation | See models chart on pg 1 |

 $\textbf{Notes:} \ \textbf{All specifications are typical at nominal input, full load, at 25 °C ambient unless noted.}$



20W-30W Single Output External Power Industrial Grade

SAFETY

| Safety Standards | EN/CSA/IEC/UL62368-1 | | |
|------------------|---|--|--|
| Shock | Operating: Half-sine, 20gpk, 10ms, 3 axes, 6 shocks total Non-Operating: Half-sine waveform, impact acceleration of 100G, Pulse duration of 6ms, Number of shocks: 3 for each of the three axis | | |

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

RELIABILITY

| MTBF | >10,00,000 hours, Full load, 110 & 220VAC input, 25°C amb., per Telcordia 332 Issue 6 | | |
|------------|---|--|--|
| E-Cap Life | >8 years life based on calculations at 115VAC/ 60Hz & 230VAC/50Hz, ambient 25°C at 24 hrs per day, 365 days/year, 6 power up cycles per day | | |

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

ENVIRONMENT

| Operating Temperature | -20°C to +70°C Start Up at -40°C, Full load, (warmup period before all parameters are within published specifications) |
|-----------------------|---|
| Temperature Derating | See derating charts below |
| Storage Temperature | -40°C to +85°C |
| Altitude | Operating: to 5000m Non-operating: -500 to 40,000 ft |
| Relative Humidity | 5% to 95%, Non-condensing |
| Vibration | Operating: 0.003g/Hz, 1.5grms overall, 3 axes, 10 min/axis, 1-500Hz Non-Operating: 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 axes |
| Weight | 250g |
| Dimensions | See outline drawings |
| | |

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

ISOLATION SPECIFICATIONS

| | Input-Output: 4,000VAC |
|-----------|-------------------------|
| Isolation | Input-Ground: 1,500VAC |
| | Output-Ground: 1,500VAC |

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

PROTECTION

| Overtemperature Protection | Will shutdown upon an overtemperature condition, Auto-recovery | | |
|-------------------------------|--|--|--|
| Overload Protection | 130 to 180% of rating, Hiccup mode | | |
| Short Circuit Protection | Hiccup mode, Auto recovery | | |
| Overvoltage Protection | Hiccup mode. See model chart above for trip ranges | | |
| Safety Drop Test | 1.4m from table top to wooden platform, 4 faces | | |

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

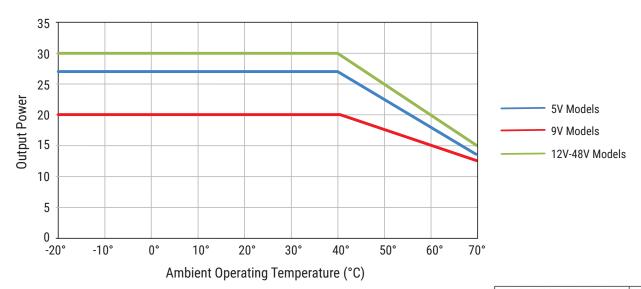
EMI/EMC COMPLIANCE

| 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 A100% dip for 5000ms (250/300 cycles), Criteria B60% dip for 100ms, Criteria B30% dip for 500ms, Criteria A |
| Harmonic Current Emissions | EN55011/EN61000-3-2, Class A |
| Flicker Test | EN61000-3-3 |

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

DERATING CHART

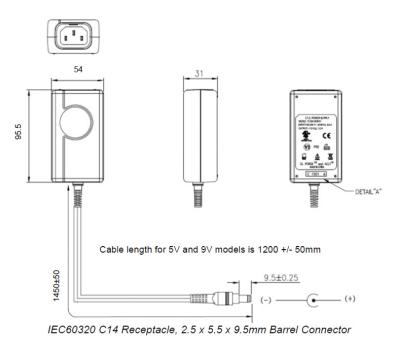
Output power is derated above 40°C as follows, for operation over the entire AC input range (90-264VAC).

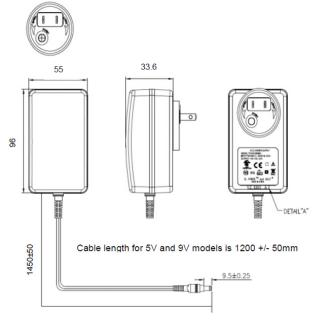


Note: Pins 4,5,6 are located closest to the locking tab

| L | EADWIRE HO | OK-UP | |
|------|------------|-------|-----------|
| PIN# | FUNCTION | COLOR | A Charles |
| 1 | +V | RED | |
| 2 | NC | - | |
| 3 | COMMON | BLACK | |
| 4 | +V | WHITE | |
| 5 | NC | - | |
| 6 | COMMON | GREEN | ياللا |
| | BRAID | FG4 | 3 |

MECHANICAL DRAWING





Interchangeable N.A. Blade, 2.5 x 5.5 x 9.5mm barrel connector

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.

TE30 Family Datasheet v0920 www.vitecpower.com

20W-30W Single Output External Power Industrial Grade

CONNECTOR INFORMATION

Standard models include a $2.5 \times 5.5 \times 9.5$ mm 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 9.5 mm straight barrel plug Center Positive | 44 | 2.1 x 5.5 x 9.5 mm straight barrel plug, locking Center positive | |
| 03 | 2.5 x 5.5 x 9.5 mm straight barrel plug Center Positive (Standard models) | 45 | 2.5 x 5.5 x 9.5 mm 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 (Pins 8 = (+), pins 5=(-), all others=NC) | 65 | Stripped and Tinned Leads | |
| 33 | 2.5 x 5.5 x 12.5 mm straight barrel plug Center positive | 70 | $2.1 \times 5.5 \times 11$ mm right angle barrel plug (High retention) Center positive | |
| 40 | 2.1 x 5.5 x 9.5 mm right angle barrel plug (High retention) Center positive | 71 | $2.5 \times 5.5 \times 11$ mm right angle barrel plug (High retention) Center positive | |
| 41 | 2.5 x 5.5 x 9.5 mm right angle barrel plug (High retention) Center positive | 72 | 2.1 x 5.5 x 9.5 mm straight barrel plug (High retention, No spark) Center positive | |
| 42 | 2.1 x 5.5 x 11 mm straight barrel plug (High retention) Center positive | 73 | 2.5 x 5.5 x 9.5 mm straight barrel plug (High retention, No spark) Center positive | |
| 43 | 2.5 x 5.5 x 11 mm straight barrel plug (High retention) Center positive | 74 | EIAJ#5 style connector - Central positive | |

EFFICIENCY LEVEL VI INFORMATION

| Single-Voltage External AC-DC Power Supply, Basic-Voltage | | | |
|---|--|--------------------------------------|----------------------------|
| Nameplate Output Power (P _{out}) | Minimum Average Efficiency in Active Mode (expressed as a decimal) | Maximum Power in No-Load Mode [W] | |
| $P_{out} \le 1 W$ | ≥ 0.5 x P _{out} + 0.16 | ≤ 0.100 | |
| 1 W < P _{out} ≤ 49 W | ≥ 0.071 x In (P _{out}) 0.0014 x P _{out} + 0.67 | ≤ 0.100 | TE30A Series 9V-48V models |
| 49 W < P _{out} ≤ 250 W | ≥ 0.880 | ≤ 0.210 | |
| P _{out} > 250 W | ≥ 0.875 | ≤ 0.500 | |
| Single-V | oltage External AC-DC Power Supply, Low | v-Voltage | |
| Nameplate Output Power (P _{out}) | Minimum Average Efficiency in Active Mode (expressed as a decimal) | Maximum Power in No-Load Mode [W] | |
| P _{out} ≤ 1 W | ≥ 0.517 x P _{out} + 0.087 | ≤ 0.100 | |
| 1 W < P _{out} ≤ 49 W | $\geq 0.0834 \times In(P_{out})$ 0.0014 x P_{out} + 0.609 | ≤ 0.100 | TE30A Series 5V models |
| 49 W < P _{out} ≤ 250 W | ≥ 0.870 | ≤ 0.210 | |
| P _{out} > 250 W | ≥ 0.875 | ≤ 0.500 | |

Disclaimer: The information and specifications contained herein are believed to be correct at the time of publication. However, SL Power accepts no responsibility for consequences arising from reproduction errors or inaccuracies. Specifications are subject to change without notice.