



Caution

Before Using Our Products

V1.2 MAY 2024

**Please read datasheet and
application note thoroughly
before using**

Plug and desktop power supplies 6 to 220 watts (TRE, TRG, TRH)

! Warning

- Before you connect the DC plug of a plug or desktop power supply to a device, please disconnect the plug or desktop power supply from the mains. Make sure that the output plug, output voltage, polarity and current of the plug or desktop power supply are suitable for your device. Make sure that the supply voltage of your power supply matches the input voltage of the plug or desktop power supply.
- Hold the plug and the device to be connected and connect the DC plug.
- Make sure that the input and output lines are protected against mechanical stress.
- Ensure good ventilation of the device to avoid overheating. A distance of 10-15 cm to other heat sources must be maintained.
- Use AC power cord greater than or equal to H03VV-F or SVT/SPT.
- If the end device is not used for a long time, disconnect the plug or desktop power supply from the mains in order to avoid possible damage caused by current pulses or lightning strikes via the building's mains network.
- For more information on the products, please visit www.cincon.com



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- Read the operating instructions carefully and observe the safety instructions before starting up the device.
- Risk of electric shock! All models may only be installed by qualified specialists (e.g. IEC60364, VDE0100, VDE0105)! In the event of malfunctions or damage, switch off the supply voltage immediately. Please do not try to fix the problem yourself!
- The use of a non-compatible socket for the DC output plug can damage the device to be supplied or even lead to malfunctions. Please always use the appropriate plug / socket combination. Please note the information for connector and connection compatibility on the data sheets.
- The device must be set up in such a way that it cannot fall off the support surface. This can damage the plug or desktop power supply.
- Please do not operate in a damp environment and near water.
- Do not expose the device to high ambient temperatures, direct sunlight or operate it near heat sources. Please note the restrictions on the maximum ambient temperature.
- The output current and output power of the device to be supplied must not exceed the nominal values of the plug-in or desktop power supply.
- Before cleaning, pull the mains plug out of the socket (never pull on the cable) to disconnect the device from the mains. Do not use liquid detergents or cleaning sprays. Use only a slightly damp cleaning cloth.

※ The contents of the datasheet and application note may be revised without notice. Please refer to the latest version of the documents for the most updated specifications.



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Model identifier	TRE06	TRG10R	TRE15 /R/RD	TRG15	TRH21
Input voltage	230Vac	230Vac	230Vac	230Vac	230Vac
Input AC frequency	50Hz	50Hz	50Hz	50Hz	50Hz
Output voltage	5.0/9.0/12.0/15.0 (V)	5.0/5.9/6.0/7.5/9.0/12.0/13.6/15.0/18.0/24.0 (V)	5.0/9.0/12.0/15.0/24.0 (V)	5.0/6.0/7.5/9.0/12.0/13.6/15.0/18.0/24.0 (V)	5.0/9.0/12.0/15.0/18.0/24.0 (V)
Output current	1.2/0.65/0.5/0.4 (A)	1.6/1.5/1.5/1.2/1.1/0.85/0.75/0.7/0.55/0.4 (A)	2.0/1.4/1.0/1.0/0.63 (A)	2.0/1.5/1.6/1.4/1.0/1.0/1.0/0.83/0.63 (A)	3.0/2.3/1.8/1.4/1.2/0.9 (A)
Output power	6.0W	8.0W for 5.0, 8.8W for 5.9V, 10.2W for other	10.0W for 5V output, 12W for 9/12V, 15.0W for other	10.0W for 5V, 9W for 6V, 12W for 9/12V, 15.0W for other	15.0W for 5V, 21.0W for other
Average active efficiency	>75.1% for 5V, >78.8% for other	>77.3% for 5V, >78.1% for 5.9V, >82.2% for other	>79.0% for 5V, >82.9% for 9/12V, >84.12% for other	>79.00% for 5V, >81.3% for 6V, >82.9% for 9/12V, >84.1% for other	>81.8% for 5V, >85.6% for other
Efficiency at low load (10 %)		>68.8% for 5V/5.9V, >72.4% for other	>69.7% for 5V, >74.5% for other	>69.7% for 5V, >71.5% for 6V, >73.5% for 9/12V, >74.5% for other	>72.4% for 5V, >76.2% for other
No-load power consumption	<0.10W	<0.10W	<0.10W	<0.10W	<0.10W

Model identifier	TRE25 /R/RD	TRH25	TRG30RV/RAV	TRE36	TRG36A
Input voltage	230Vac	230Vac	230Vac	230Vac	230Vac
Input AC frequency	50Hz	50Hz	50Hz	50Hz	50Hz
Output voltage	5.0/9.0/12.0/15.0/18.0/24.0 (V)	3.3/5.0/12.0/15.0/18.0/24.0 (V)	5.0/9.0/12.0/15.0/18.0/24.0 (V)	5.0/9.0/12.0/13.5/15.0/18.0/24.0/36.0/48.0 (V)	5.0/9.0/12.0/13.5/15.0/18.0/24.0/48.0 (V)
Output current	4.0/2.5/2.1/1.67/1.4/1.05 (A)	4.0/4.0/2.1/1.67/1.4/1.05 (A)	4.0/3.0/2.5/2.0/1.67/1.25 (A)	5.0/3.3/2.5/2.4/2.4/2.0/1.5/1.0/0.75 (A)	4.0/3.0/2.5/2.4/2.4/2.0/1.5/0.75 (A)
Output power	20.0W for 5.0V, 25.2W for other	13.2W for 3.3V, 20.0W for 5.0V, 25.2W for other	20.0W for 5.0, 27W for 9.0V, 30.0W for other	25.0W for 5V, 30.0W for 9/12V, 36.0W for other output	20.0W for 5V, 27.0W for 9V, 30.0W for 12V, 36.0W for other output
Average active efficiency	>85.4% for 5V, >86.3% for other	>83.3% for 3.3V, >85.4% for 5V, >86.3% for other	>83.6% for 5V, >86.9% for other	>84.9% for 5V, >87.4% for other	>84.9% for 5V, >87.4% for other
Efficiency at low load (10 %)	>75.9% for 5V, >77.0% for other	>73.8% for 3.3V, >75.9% for 5.0V, >77.0% for other	>74.2% for 5V, >77.6% for other	>75.4% for 5V, >78.3% for other	>74.2% for 5V, >78.3% for other
No-load power consumption	<0.10W	<0.10W	<0.10W	<0.10W	<0.10W



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Model identifier	TRH50A	TRH70A	TRH100A	TRH150A	TRH160A
Input voltage	230Vac	230Vac	230Vac	230Vac	230Vac
Input AC frequency	50Hz	50Hz	50Hz	50Hz	50Hz
Output voltage	12.0/15.0/18.0/ 19.0/24.0/28.0/3 6.0/48.0 (V)	12.0/15.0/18.0/ 19.0/24.0/28.0/3 6.0/48.0 (V)	12.0/13.5/15.0/ 18.0/19.0/24.0/2 8.0/36.0/48.0 (V)	12.0/15.0/18.0/19. 0/24.0/28.0/36.0/ 48.0 (V)	12.0/24.0/28.0/30. 0/36.0/48.0/56.0 (V)
Output current	4.2/3.36/2.8/ 2.65/2.1/1.8/1.4 /1.05 (A)	5.8/4.65/3.9/3.7 /2.5/3.0/2.0/1.5 (A)	8.34/7.33/6.67/ 5.56/5.21/4.17/3 .54/2.78/2.08 (A)	12.5/10.0/8.34/7.9 /6.25/5.36/4.17/3. 13 (A)	12.5/6.66/5.7/5.31 /4.44/3.33/2.85 (A)
Output power	50.4W	70W	100W	150W	160W
Average active efficiency	>88%	>88%	>88%	>88%	>88%
Efficiency at low load (10 %)	>79%	>79%	>79%	>79%	>79%
No-load power consumption	<0.21W	<0.21W	<0.21W	<0.21W	<0.21W

Model identifier	TRH220A				
Input voltage	230Vac				
Input AC frequency	50Hz				
Output voltage	12.0/24.0/36.0/4 8.0/56.0 (V)				
Output current	16.67/9.17/6.11/ 4.58/3.93 (A)				
Output power	220W				
Average active efficiency	>88%				
Efficiency at low load (10 %)	>79%				
No-load power consumption	<0.21W				

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