

Tetra[®] LED Systems Power Supply

(GEPS12-20)

Power Supply Features

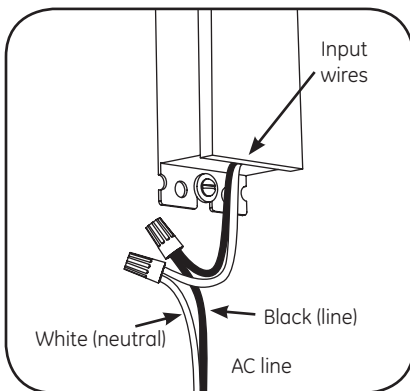
- Supports Tetra MAX, Tetra miniMAX, Tetra PowerMAX and Tetra PowerStrip LED Lighting Systems
- Class 2 wiring per NEC Article 725 (SELV)
- Damp location rated
- IP66 rated: separate enclosure required



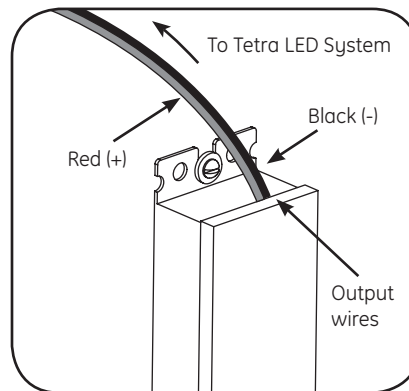
⚠ WARNING

Risk of electrical shock. Turn power OFF before inspection, installation or removal.

Power Supply Installation



- 1 Connect the AC line to the black (line) and white (neutral) input wires of the power supply using 18-14 AWG (0.82-2.08 mm²) twist-on wire connectors.



- 2 Connect the supply wire that is attached to the Tetra LED System to the red (+) and black (-) output wires of the power supply as outlined in the **“Electrical Connections”** section of your LED system’s Installation Instructions

NOTE: Power Supply Loads

Exceeding maximum load will cause the power supply to shut down. Once the excess load is removed, cycle the input power to restart the power supply.

Specific load information for the supported LED systems can be found in the **“Power Supply Specifications”** section on the next page.

NOTE: For CSA approval, a disconnect/toggle switch of appropriate rating needs to be placed within 29 ft. (8.84 m) of primary side of the power supply. The minimum rating of the switch must be either 120 or 220 Volts AC. The switch must also support twice the amount of input current.

NOTE: When installing power supply, connect to the appropriate sized building breaker or disconnect device for line and neutral connections, in accordance with local, state or country regulations.

Power Supply Specifications

	Min	Typical	Max
Input Voltage (VAC)	90	100 -240	264
Input Frequency (HZ)	-	50/60	-
Input Current (A)	-	-	0.32
Output Voltage (VDC)	11.7	12.0	12.3
Output Current (ADC)	-	-	1.7
Output Power (W)	-	-	20
Environmental Operating Temperature Range	-40°C	+25°C	+60°C
Environmental Humidity (non-condensing)	0%	-	95%
Environmental Storage Temperature Range	-40°C	-	+85°C

Enclosure Specification

Dimensions

Damp Location Rated 5.9 in. x 1.5 in. x 1.3 in. (150 mm x 37 mm x 32 mm)

Load-Lineal ft. (m)	Min	Max	Remote Mounting Distance
Tetra MAX - GERDMXS6, GEGLMXS6, GEBLMXS6, GEWHMXS6, GEWWMXS6, GEYGMXS6, GERCMXS6	3 modules 1 ft. (0.30 m)	51 modules 17 ft. (5.18 m)	1-120 ft. (0.3-36.6 m)
Tetra MAX - GERDMXL6, GERCMXL6	2 modules 1 ft. (0.30 m)	52 modules 26 ft. (7.92 m)	1-120 ft. (0.3-36.6 m)
Tetra MAX - GEWHMXWA5, GEWWMXWA5	2 modules 1 ft. (0.30 m)	42 modules 17 ft. (5.18 m)	1-120 ft. (0.3-36.6 m)
Tetra miniMAX - GEWHMMS5, GEWWMMS5, GERDMMS5, GEGLMMS5, GEBLMMS5	3 modules 1 ft. (0.30 m)	30 modules 12 ft. (3.66 m)	1-120 ft. (0.3-36.6 m)
Tetra PowerStrip-GEWHSSP3-65K, GEWWSSP3-41K	1 module	5 modules	1-120 ft. (0.3-36.6 m)
Tetra PowerMAX-GEWHPMS2-65K, GEWWPMS2-30K	2 modules 1 ft. (0.30 m)	20 modules 10 ft. (3.05 m)	1-120 ft. (0.3-36.6 m)

NOTE: Minimum wire size for remote mounting is 18AWG (0.82 mm²). For information regarding longer remote mounting distances, contact technical support.

⚠ WARNING!

RISK OF ELECTRIC SHOCK:

- Turn power OFF before inspection, installation or removal.
- Properly ground Tetra Power Supply enclosure.
- Shut off power at fuse box or circuit breaker before installation.



RISK OF FIRE:

- Follow all NEC and local codes.
- Use only UL approved wire for input/output connections. Minimum size 18 AWG (0.82 mm²)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This Class [A] RFLD complies with the Canadian standard ICES-005. Ce DEFR de la classe [A] est conforme à la NMB-005 du Canada.

Conforms to the following standards:



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 P: 216.266.4800 • F: 216.266.2158 • www.lumination.com • info@lumination.com

For customer service & technical support, contact:
1-888-MY-GE-LED (1.888.694.3533)

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Tetra® LED Systems Power Supply

(GEPS12-60 & GEPS12-60U)

Power Supply Features

- Supports Tetra miniMAX, Tetra MAX, Tetra PowerMAX and Tetra PowerStrip LED lighting systems
- Class 2 wiring per NEC Article 725 (SELV)
- Damp location rated
- IP66 rated: separate enclosure required



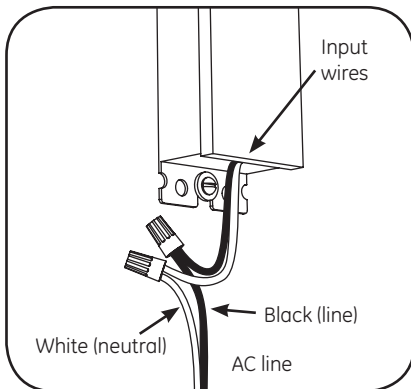
BEFORE YOU BEGIN

Read these instructions completely and carefully.

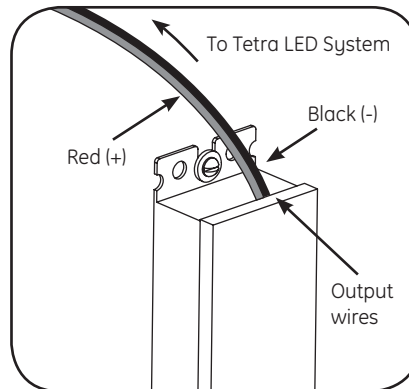
⚠ WARNING / AVERTISSEMENT

Risk of electrical shock. Disconnect power before servicing or installing product.
Risque de choc électrique. Couper l'alimentation avant le dépannage ou avant l'installation du produit.

Power Supply Installation



- 1 Connect the AC line to the black (line) and white (neutral) input wires of the power supply using 18-14 AWG (0.82-2.08 mm²) or 18-10AWG (0.82-5.26mm²) twist-on wire connectors..



- 2 Connect the supply wire that is attached to the Tetra LED System to the red (+) and black (-) output wires of the power supply as outlined in the **"Electrical Connections"** section of your LED system's **Installation Instructions**.

NOTE: Power Supply Loads

Exceeding maximum load will cause the power supply to shut down. Once the excess load is removed, cycle the input power to restart the power supply.

Specific load information for the supported LED systems can be found in the **"Power Supply Specifications"** section on the next page.

NOTE: For CSA approval, a disconnect/toggle switch of appropriate rating needs to be placed within 29 feet (8.84 meters) of primary side of the power supply. The minimum rating of the switch must be either 120 or 220 Volts AC. The switch must also support twice the amount of input current.



NOTE: When installing power supply, connect to the appropriate sized building breaker or disconnect device for line and neutral connections, in accordance with local, state or country regulations.

NOTE: The grounding and bonding of the power supply and overall sign shall be done in accordance with National Electric Code (NEC) Article 600.

Power Supply Specifications

	GEPS12-60			GEPS12-60U		
	Min	Typical	Max	Min	Typical	Max
Input Voltage (VAC)	90	100-240	264	108	120-277	305
Input Frequency (Hz)	-	50/60	-	-	50/60	-
Input Current (A)	-	-	0.85	-	-	0.61
Output Voltage (VDC)	11.4	12	12.6	11.5	12	12.5
Output Current (ADC)	0.8	-	5.0	0.8	-	5.0
Output Power (W)	-	-	60	-	-	60

Enclosure Specification

Dimensions

Damp Location Rated 9.5 in. x 1.7 in. x 1.2 in. (240 mm x 43 mm x 30 mm)

Environmental Specifications

	Min	Typical	Max
Environmental Operating Temperature Range	-40°C	+25°C	+65°C*
Environmental Humidity (non-condensing)	0%	-	95%
Environmental Storage Temperature Range	-40°C	-	+85°C

*Maximum case temperature is 90°C

Load per Power Supply

	Min	Max
Tetra MAX - GERDMXS6, GEGLMXS6, GEBLMXS6, GEWHMXS6, GEWWMXS6, GEYGMXS6, GERCMXS6	3 modules/1 ft. (0.30 m)	162 modules/54 ft. (16.46 m)
Tetra MAX - GERDMXL6, GERCMXL6	2 modules/1 ft. (0.30 m)	160 modules/80 ft. (24.38 m)
Tetra MAX- GEWHMXWA5, GEWWMXWA5	2 modules/1 ft.(0.30 m)	135 modules/54 ft.(16.46 m)
Tetra miniMAX - GEWHMMS5, GEWWMMS5, GERDMMS5, GEGLMMS5, GEBLMMS5	3 modules/1 ft. (0.30 m)	90 modules/36 ft. (10.97 m)
Tetra PowerStrip- GEWHSSP3-65K, GEWWSSP3-41K	1 module/1 ft. (0.30 m)	16 modules/16 ft. (4.88 m)
Tetra PowerMAX - GEWHPMS2-65K, GEWWPMS2-30K	2 modules/1 ft.(0.30 m)	50 modules/25 ft.(7.62 m)

Maximum Remote

Mounting Distance	18AWG (0.82 mm ²)	16AWG (1.31 mm ²)	14AWG (2.08 mm ²)	12AWG (3.31 mm ²)	10AWG (5.27 mm ²)	8AWG (8.35 mm ²)
Tetra MAX	30 ft.(9.1 m)	50 ft.(15.2 m)	80 ft.(24.4 m)	120 ft.(36.6 m)	-	-
Tetra miniMAX	30 ft.(9.1 m)	50 ft.(15.2 m)	80 ft.(24.4 m)	120 ft.(36.6 m)	-	-
Tetra PowerStrip	30 ft.(9.1 m)	25 ft.(7.62 m)	35 ft.(10.6 m)	40 ft.(12.1 m)	75 ft.(22.8 m)	100 ft.(30.5 m)
Tetra PowerMAX	15 ft.(4.5 m)	20 ft.(6.1 m)	30 ft.(9.1 m)	60 ft.(18.2 m)	-	-

⚠ WARNING!

RISK OF ELECTRIC SHOCK:

- Turn power OFF before inspection, installation or removal.
- Properly ground Tetra Power Supply enclosure.
- Shut off power at fuse box or circuit breaker before installation.



RISK OF FIRE:

- Follow all NEC and local codes.
- Use only UL approved wire for input/output connections. Minimum size 18 AWG (0.82 mm²)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This Class [A] RFLD complies with the Canadian standard ICES-005. Ce DEFR de la classe [A] est conforme à la NMB-005 du Canada.

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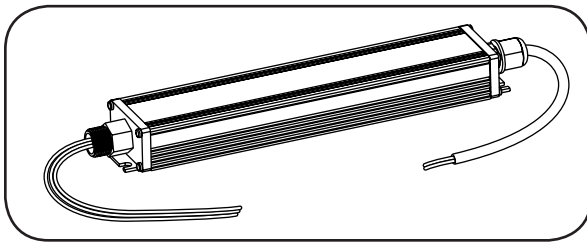
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Tetra[®] LED Systems Power Supply

(GEPS12W-60)

Power Supply Features



- Supports Tetra miniMAX, Tetra MAX, Tetra PowerMAX and Tetra PowerStrip LED lighting systems
- Class 2 wiring per NEC Article 725 (SELV)
- IP66 rated: wet location rated

Power Supply Installation

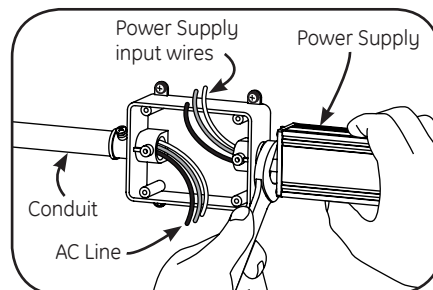


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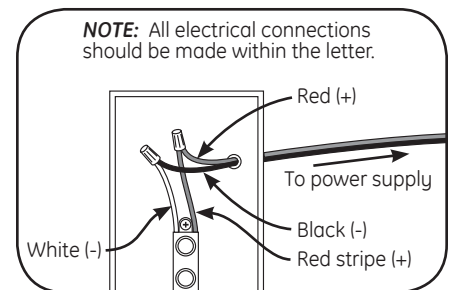
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⚠ WARNING/AVERTISSEMENT

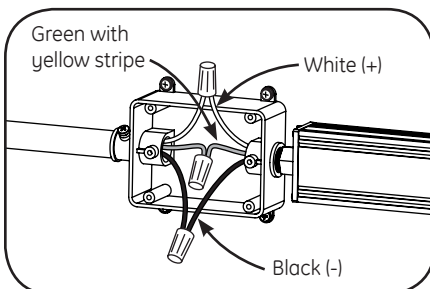
Risk of electrical shock. Disconnect power before servicing or installing product.
Risque de choc électrique. Couper l'alimentation avant le dépannage ou avant l'installation du produit.



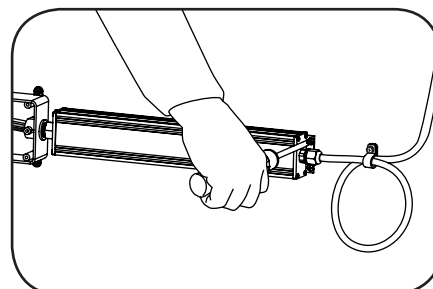
- 1 Run AC line through conduit and attach conduit to outdoor-rated/UL approved enclosure. Attach power supply to enclosure.



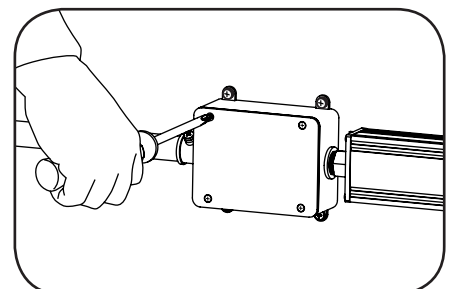
- 2 Connect the red stripe wire (+) of the LED strip to the red wire (+) of the power supply. Connect the white wire (-) of the LED strip to the black wire (-) of the power supply.



- 3 Connect the AC line to the black (line) and white (neutral) input wires of the power supply using 18-14 AWG (0.82-2.08) twist-on wire connectors. Properly ground (green wire with yellow stripe) power supply in accordance with National Electric Code (NEC) Article 600.



- 4 Mount Power Supply in a horizontal orientation with a minimum of one screw per mounting plate (two screws per power supply).



- 5 Tighten liquid-tight fittings and properly replace cover on junction box to ensure a water-tight seal.



Installation Guide

NOTE: Properly ground the power supply and sign in accordance with National Electric Code (NEC 600 and all local codes).

NOTE: For CSA approval, a disconnect/toggle switch of appropriate rating needs to be placed within 29 ft. (8.84 m) of primary side of the power supply. The minimum rating of the switch must be either 120 or 220 Volts AC. The switch must also support twice the amount of input current.

NOTE: When installing power supply, connect to the appropriate sized building breaker or disconnect device for line and neutral connections, in accordance with local, state or country regulations.

Power Supply Specifications

Performance Data	Min	Typical	Max
Input Voltage (VAC)	90	100-240	264
Input Frequency (Hz)	-	50/60	-
Input Current (A)	-	-	0.85
Output Voltage (VDC)	11.4	12	12.6
Output Current (ADC)	0.8	-	5.0
Output Power (W)	-	-	60
Dimensions	12 in. x 2 in. x 1.25 in. (307 mm x 52 mm x 32 mm)		

Environmental Specifications	Min	Typical	Max
Environmental Operating Temperature Range	-40°C	+25°C	+60°C*
Environmental Humidity (non-condensing)	0%	-	95%
Environmental Storage Temperature Range	-40°C	-	+85°C
Environmental Rating	IP66: Wet Location Rated		

* Maximum case temperature is 80°C

Load-Lineal ft. (m)	Min	Max
Tetra MAX - GERDMXS6, GEGLMXS6, GEBLMXS6, GEWHMXS6, GEWWMXS6, GERCMXS6, GEYGMXS6	3 modules/1 ft. (0.30 m)	162 modules/54 ft. (16.46 m)
Tetra MAX - GERDML6, GERCMXL6	2 modules/1 ft. (0.30 m)	160 modules/80 ft. (24.38 m)
Tetra MAX - GEWHMXWA5, GEWWMXWA5	3 modules/1.2 ft. (0.36 m)	135 modules/54 ft. (16.46 m)
Tetra miniMAX - GEWHMMS5, GEWWMMS5, GERDMMS5, GEGLMMS5, GEBLMMS5	3 modules/1 ft. (0.30 m)	90 modules/36 ft. (10.97 m)
Tetra PowerStrip - GEWHSSP3-65K, GEWWSSP3-41K	1 module/1 ft. (0.30 m)	16 modules/16 ft. (4.88 m)
Tetra PowerMAX - GEWHPMS2-65K, GEWWPMS2-30K	3 modules/1 ft. (0.30 m)	50 modules/25 ft. (7.62 m)

Maximum Remote Mounting Distance	18AWG (0.82 mm ²)	16AWG (1.31 mm ²)	14AWG (2.08 mm ²)	12AWG (3.31 mm ²)	10AWG (5.27 mm ²)
Tetra MAX, Tetra miniMAX	30 ft. (9.1 m)	50 ft. (15.2 m)	80 ft. (24.4 m)	120 ft. (36.6 m)	-
Tetra PowerStrip	20 ft. (6.1 m)	25 ft. (7.6 m)	35 ft. (10.6 m)	40 ft. (12.2 m)	75 ft. (22.8 m)
Tetra PowerMAX	15 ft. (4.57 m)	20 ft. (6.10 m)	30 ft. (9.14 m)	60 ft. (18.29 m)	-

⚠ WARNING!

RISK OF ELECTRIC SHOCK:

- Turn power OFF before inspection, installation or removal.
- Properly ground Tetra Power Supply.
- Shut off power at fuse box or circuit breaker before installation.



RISK OF FIRE:

- Use only Tetra Supply Wire to make connection from Tetra Power Supply to Tetra LED Strip.
- Follow all NEC and local codes.
- Use only UL approved wire for input/output connection. Minimum size 18 AWG (0.82mm²)

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