# Encapsulated DC to DC Step Up Transformer
# 12V DC to 24V DC - 20 Amps - Flying Leads - Waterproof
# Instruction Manual

Do not attempt installation until you are familiar with all warnings, precautions, and procedures outlined within this instruction sheet.

## WARNING:

**READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE. CRITICAL SAFETY INSTRUCTIONS:**

Risk of electrical shock and energy hazard. All failure should be examined by a qualified technician. Please do NOT remove the case of the power supply by yourself.

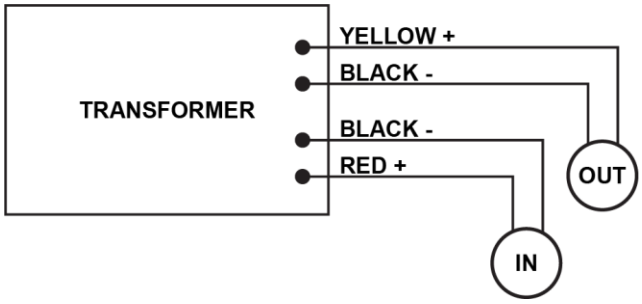
Please do NOT install power supplies in places with high ambient temperature or close to a fire source. Please refer to the specifications about the maximum ambient temperature limitations.

Output current and output wattage must not exceed the rated values on the specifications.

The Larson Electronics DCP-12x24-20A-WP Waterproof DC to DC Step-up Transformer converts 12V DC electrical current to 24V DC at 20 amps max. This converter includes flying leads to hard wire this unit inline. This unit takes 12 volts DC and converts it to 24 volts DC, allowing users to use 12 volt DC power to operate equipment that requires 24 volts.

## INSTALLATION

This transformer includes 6” wires for both the input and output connections. All leads are stripped and tinned for equipment installation. This converter operates at 12V DC and converts it to 24V DC @ 20 Amps. This allows users to use 24V DC equipment on a lower voltage DC power supply.




Make sure power is turned off prior to wiring! Take all appropriate steps for waterproofing connections as necessary. Connect input lead to power source. Connect equipment to output side. The connected device(s) will power once the converter is energized. If not, check power source and connections.

**NOTE:** In order to obtain the best performance and the longest operational life from these units, it is recommended that you do not exceed 75% of the unit’s output amperage. To determine if this converter suits your desired application, add together the total wattage of the equipment you intend to use with this unit and divide this total by 12 volts to find the total amperage draw that will be placed upon the converter. For example, if you are using two of our LEDP10W-120E 120 watt LED lights, 120 watts divided by 12 volts is 10 amps. This would mean the DCP is well suited as it would run at under 75% capacity to produce the necessary 10 amps. Running these units at 100% of their capacity can create excess heat and lead to shortened converter life.

**See product nameplate for exact voltage requirements.*

THESE INSTRUCTIONS MAY NOT COVER ALL DETAILS OR VARIATIONS OF THIS PRODUCT FOR YOUR EQUIPMENT OR INSTALLATION REQUIREMENTS. SHOULD FURTHER INFORMATION NOT COVERED BY THESE INSTRUCTIONS BE REQUIRED, PLEASE CONTACT LARSON ELECTRONICS BY EMAIL AT SALES@LARSONELECTRONICS.COM OR BY PHONE AT 1-800-369-6671 FOR FURTHER ASSISTANCE.

PLEASE VISIT LARSONELECTRONICS.COM FOR **WARRANTY** AND **RETURN** INFORMATION.