

Introduction

The 6700 Series power converter installed in your RV is the heart of the 12 volt DC electrical system. It is manufactured with pride by MagneTek.

We are confident that it will give you outstanding performance for many years. If you have any questions or comments about this product, please contact our customer service representative at the address or phone number listed below:

MagneTek
305 North Briant Street
Huntington Indiana 46750
(219) 356-7101

General Information

Primarily the 6700 Series converts the 120 volt AC power into 12V filtered DC to operate all 12 volt operated lights, fans, radio, TV, water pump, etc. with or without a battery connected.

All 6700 models contain an automatic battery charger that will charge your RV battery (if installed) while the RV is plugged into shore power.

In addition to converting 120 volt AC to 12 volt DC the converter contains the vehicles 120 volt AC breakers that protect the AC appliances and outlets.

All user functions (resetting breakers or replacing 12 volt DC fuses) are accessed by grasping the upper area of both sides of the plastic door and pulling out and down.

Operation

The power converter operates only when the RV is plugged into a 120 volt AC power. All 6700 Series converters are rated for use with a standard 30 amp 120 volt RV type shore-line cord.

The 6700 series also employs over temperature protection, if the unit is loaded beyond the nameplate rating or the ventilation slots are obstructed, the converter will shut off then automatically turn back on when it has cooled down.

To operate 12V DC appliances from the converter simply plug in the shoreline cord from the RV to 120 volt 30 amp supply. If the converter does not come on check to see if the 120 volt breakers on the front panel are switched on.

Operation From Battery Power

When the shore-line cord is unplugged or the converter AC breaker is off the 12 volt system will automatically operate from the RV battery.

NOTE: If a battery is not connected, the 12 volt system will only work when the converter is plugged in to shore-line power.

Automatic Battery Charger

The 6700 Series charger is fully automatic and regulated. This means it always monitors the battery condition and sends the correct amount of current needed to recharge and maintain the battery.

Batteries "gas" as they are discharged and charged causing the fluid level in the battery to evaporate. If the fluid level drops below the plates in the battery, exposing them to the air, the performance will be greatly reduced eventually causing the need for battery replacement.

Always follow the battery manufacturers routine maintenance instructions.

NOTE: Sealed or maintenance free batteries do not require fluid level checks.

During long periods of non-use MagneTek recommends plugging in the RV shore-line over night once a month to maintain the life of the battery.

The full nameplate DC current rating of the converter is available for battery charging. If your battery is discharged the converter may exceed the maximum current rating during the recharge period. If this occurs the converter will automatically reduce its output voltage to protect its self. Under certain conditions the converter may exceed the maximum temperature allowed and will shut off for a brief period then return to the task or recharging the battery.

This condition should be of no concern. This is called cycling and will continue until the recharge load drops below the nameplate rating. To help the recharge process reduce the 12 volt loads (lights, motors, etc.) As much as possible.

NOTE: During battery replacement observe battery polarity. If the battery polarity is reversed the battery fuse will "blow" on the front panel of the converter. When any fuse is replaced always replace with same fuse rating as marked on front panel.

DO NOT OVER FUSE.

Optional Battery Charger Timer. Option (T)

The optional battery charger timer system allows a higher battery recharge voltage for fast recharge of the battery. After 14 hours of recharge the timer instructs the converter to lower the voltage to a maintenance voltage to prevent over charge. This system is especially valuable in long term hot weather environments to prevent over charge.

120 Volt AC Power Distribution Section

All 6700 Series converters contain the 120 volt AC breakers that protect AC appliances. This includes but is not limited to AC receptacles, power converter and roof air conditioners.

If a breaker trips because of an overload, reset it by shutting the breaker off (moving the handle down), then turning the breaker back on by moving the handle up.

NOTE: If the breaker trips again, help from a qualified electrician or RV technician should be contacted to fix the problem.

DC Fuses

Fuseholders for replaceable automotive type fuses are located on the upper right hand corner of the faceplate. Maximum fuse size and circuit identification are provided to the left of the fuse holders. To maintain safe and correct operation use only Little-fuse type 257 fuse.

Specifications

MODEL 6712

Panel Input: 120 volts, 60 hz, 30 amps
Converter Input: 105-130 volts, 60 hz, 200 watts max.
Converter Output: 13.8 volts DC, @ 12 amps
Dimensions (H, W, D): 5.625", 12.25", 3.38"
Faceplate: 7" x 14" Cut-out: 6.25" x 12.75"

UL Listed for USA and Canadian applications

MODEL 6720

Panel Input: 120 volts, 60 hz, 30 amps
Converter Input: 105-130 volts, 60 hz, 355 watts max.
Converter Output: 13.8 volts DC, @ 20 amps
Dimensions (H, W, D): 5.625", 12.25", 5.0"
Faceplate: 7" x 14" Cut-out: 6.25" x 12.75"
UL Listed for USA and Canadian applications

Warranty Statement

MagneTek warrants each converter to be free from defects in materials or workmanship under normal use and service and limits the remedies to repair or replacement.

This warranty extends for two years from the date of retail purchase and is only valid to the original owner and within the continental limits of the United States and Canada.

If a problem should occur with your converter within the first 24 months of purchase, please contact a dealer that handles warranty on your brand of RV.

This warranty does not cover damage due to improper installation, abuse or accidents. All 6700 models should be installed by a qualified electrician.

NO USER SERVICEABLE PARTS INSIDE.

DO NOT DESTROY THIS MANUAL

For future warranty reference record:

Date of RV purchase _____
Converter Model# _____ Code _____

MagneTek

RV & Marine

305 North Briant Street
Huntington, Indiana 46750

6700 Series

Electronic Power Converter Owners' Manual

