E805-MK2 Trailer Voltage Converter
(Independent of E.C.U.)



This Unit allows a 12Volt Trailer to be towed by a 24Volt Vehicle.

The E805-MK2 Trailer Voltage Converter has been designed to give it compatibility with Vehicles either with or without Engine Management Systems.

The main power for the Unit is taken directly from the Vehicle's 24V Battery.

The outputs are controlled by the voltage applied to the Input Leads, the current drawn by the Inputs is typically 0.3mA.

There are six independent output circuits, each is Overload and Short Circuit protected.

A bulb failure warning circuit monitors the yellow and green indicator outputs. An output on the pink cable is present when the indicators are on and the bulb is good. The bulb failure indicates when one of the indicator lights has failed. The bulb failure facility is not suitable for LED indicator lights.

THE OUTPUT FROM THE TRAILER VOLTAGE CONVERTER CANNOT BE MEASURED WITH A STANDARD VOLT METER – THIS IS BECAUSE IT IS AN ELECTRONIC SIGNAL AND CAN ONLY BE MEASURED WITH SPECIAL EQUIPMENT

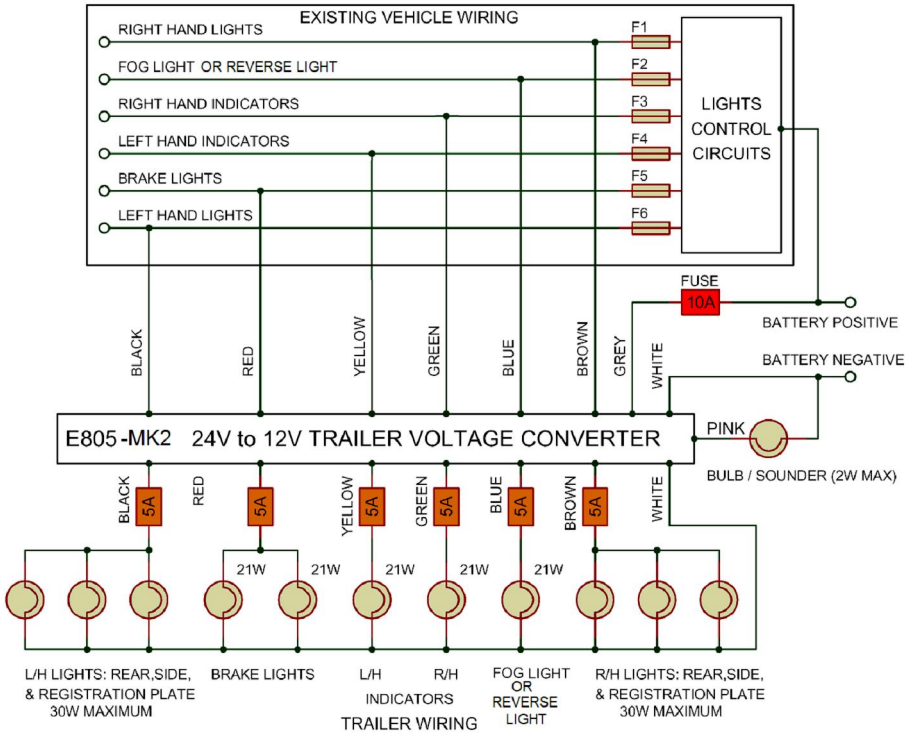
PART NO	E805 – MK2
TYPE	SWITCH MODE STEP DOWN
INPUT VOLTAGE	24V DC
OUTPUT VOLTAGE	12V DC
MAX CONT. OUTPUT POWER	165 WATTS
OVER VOLT. PROTECTION	INTERNAL FUSE
SHORT CIRCUIT PROTECTION	✓
THERMAL SHUTDOWN	✓
EFFICIENCY	> 80%
LEFT HAND PART OF LIGHTING SYSTEM	30W (REAR LIGHT, SIDE LIGHTS, REG. PLATES)
LEFT HAND FLASHLIGHT	21 WATT
STOP LIGHTS	42 WATT
RIGHT HAND PART OF LIGHTING SYSTEM	30W (REAR LIGHT, SIDE LIGHTS, REG. PLATES)
RIGHT HAND FLASHLIGHT	21 WATT
REAR FOG LIGHT or REVERSE LIGHT	42 WATT
BULB FAILURE	2W max
WEIGHT	570g
DIMENSIONS	215mm x 70mm X 55mm
FIXING CENTRES	198mm X 40mm
HOLE SIZE	5.5mm (4 HOLES)
CONNECTIONS	FLYING LEADS
CONSTRUCTION	ANODISED COOLING PROFILE

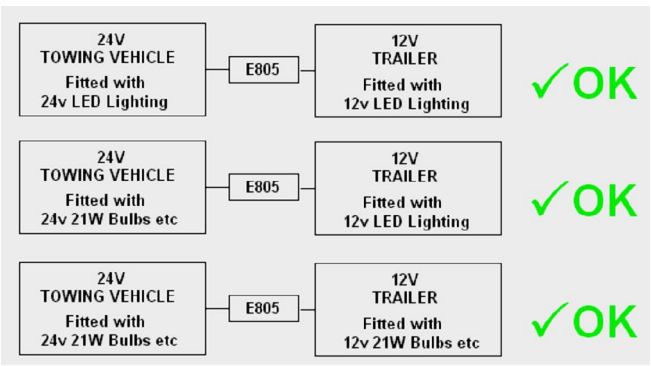
CARE SHOULD BE TAKEN WHEN MOUNTING THE UNIT TO ENSURE THAT IT IS FITTED PREFERABLY INSIDE THE VEHICLE OR IN A SHELTERED POSITION WHICH IS NOT DIRECTLY SUBJECT TO RAIN OR WATER INGRESS FROM WHEEL SPRAY ETC

E805-MK2 Trailer Voltage Converter
(Independent of E.C.U.)

Specification:

Parameter	Conditions	Value
Power Input Voltage (Vp)	Grey Cable	18V to 30V
Control Input voltage (Vc)	Output Off	0V to Vp – 2V
	Output On	Vp to Vp – 1.4V
Control Input Current	Vp = Vc = 27V	0.3mA
Output Voltage	Vp = 24V	12V (Chopped DC = ½Vp)
Output Load Black	Vp = 24V	30W
Output Load Yellow	Vp = 24V	21W
Output Load Red	Vp = 24V	42W
Output Load Brown	Vp = 24V	30W
Output Load Green	Vp = 24V	21W
Output Load Blue	Vp = 24V	21W
Overload Protection	Maximum Load Any Output	42W
	Maximum Total Load All Outputs	165W
Output Voltage Pink	Vp = 24V	12V (Chopped DC = ½Vp)
Output Load Pink		2W max
Yellow / Green Load for Output		> 15W





	Circuit	Cable	Load
1	Left Hand Lighting	Black	30W
2	Left Hand Flashers	Yellow	21W
3	Stop Lights	Red	42W
4	Right Hand Lighting	Brown	30W
5	Right Hand Flashers	Green	21W
6	Rear Fog Lights OR Reverse Light	Blue	21W
7	Power input +24V	Grey	
8	Power Input –0V	White	
9	Power Output Common –0V	White	
10	Bulb Failure Indicator	Pink	2W Max

EURO MANUFACTURING AND MARKETING LIMITED
Euro Works, 11 – 13 High Street, Wem, Shropshire SY4 5AA, England.
Tel.: +44 (0) 1939 235 073 Fax.: +44 (0) 1939 235 074
Email: sales@eurogroup-gb.com OR sales@battery-management-voltage-converter.com
Web Site: www.eurogroup-gb.com OR www.battery-management-voltage-converter.com