

**Trailer Electrical Interface Model  
UTC 2412-7B**

**MS 75021-1 Input (24V)**



**SAE 560/ ISO 1185 Input (24V)**



**JAE 560 Output (12V)**



**Design Features**

- Wide Range Input Voltage
- High Efficiency Design
- Hi Ingress Rating, IP 676
- Low Voltage cutout
- High Voltage cutout
- Electronically Current Limited
- Thermally Protected
- Low No Load Power Consumption
- All Aluminum Anodized Housing
- 6 point mounting
- Optional SAE 560 or NATO MS 75021-1 Input Connection
- Output via 12 foot pigtail

**Input/Output Function Table for UTC 2412-7B**

				OUTPUT P3 (Cable)							
				7 Wire (12 Volts)							
				OUT 1	OUT 1	OUT 1	OUT 1	OUT 1	OUT 1	OUT 1	
				White	Yellow	Green	Blue	Brown	Black	Red	
<b>INPUTS</b>											
<b>J1 (Connector)</b>											
IN 1	wire (pin)	Function									
12 Pin NATO 24 Volts	IN 1	A	Blackout Tail	Not Used	X						
	IN 1	B	Left Turn Sig.			X					
	IN 1	C	Convoy Lights (BO Tail)	Not Used							
	IN 1	D	Ground		X						
	IN 1	E	Tail Lights						X	X	
	IN 1	F	Blackout Stop Lights	Not Used							
	IN 1	H	Blackout Tail	Not Used							
	IN 1	J	Right Turn Signal			X					
	IN 1	K	Trailer Aux Power				X				
	IN 1	L	Ground		X						
	IN 1	M	Normal Stop Lights								X
	IN 1	N	Reverse Lights	Not Used							
	<b>J2 (Connector)</b>										
	7 Pin SAE 560 (ISO 1185) 24 Volts	IN 2	White	Ground		X					
IN 2		Yellow	Left Turn Sig.		X						
IN 2		Green	Right Turn Signal			X					
IN 2		Blue	Trailer Aux Power				X				
IN 2		Brown	Tail & License					X			
IN 2		Black	Clearance & Side Marker						X		
IN 2		Red	Brake							X	

<b>INPUT VOLTAGE RANGE</b>	21-30 VDC (nominal) Will withstand up to 36V
<b>INPUT CURRENT</b>	10A max. per Circuit
<b>OUTPUT VOLTAGE</b>	13.6 +, - 0.3 V per circuit
<b>OUTPUT CURRENT</b>	15A per line (BRN, BLK, RED, BLUE) 10A per line (YEL, GRN)
<b>OUTPUT REGULATION</b>	0.2V over entire input voltage and load current range

<b>OPERATING TEMPERATURE</b>	-40C to +60C
<b>STORAGE TEMPERATURE</b>	-60C to +125C
<b>OVERLOAD PROTECTION</b>	Electronic
<b>EFFICIENCY</b>	92% Typical
<b>CONSTRUCTION</b>	<b>BLACK ANODIZED ALUMINUM</b>
<b>WEIGHT</b>	25 lbs./ 11.5 kg. total (cable included)

**NOTE: Specifications are subject to change without notice.**

Rev 7/15/2015