

TR100 MOBILE POWER ADAPTER

- Thermal Shutdown
- 100 Watts continuous from 10.6V-16V at 55°C
- Short Circuit Protection
- Input Overvoltage Shutdown
- Input Undervoltage Shutdown
- Output Overvoltage Shutdown
- No Minimum Load
- Three Year Warranty
- 12 Watts per cubic inch @ 55°C with no air needed

TR100			
Ault Part No.	Voltage DC	Output Current (Amps)	Max Watts
TR10015	15.0V	6.67	100
TR10016	16.0V	6.25	100
TR10018	18.0V	5.55	100
TR10019	19.0V	5.26	100
TR10020	20.0V	5.00	100
TR10024	24.0V	4.16	100

Ault Part No. Key					
TR100	15	Α	1-	00	XX
Product Family Name	Output Voltage	Design Revision Changes	Input Voltage	Input Config.	Denotes Standard or Custom Requirements 01=Standard



TR100

Electrical	
Input	10.6 - 16 Vdc. Adapter turns on with an input of 10.5Vdc and the unit will turn off at an input of 9.5Vdc
Input Cable	24" 14AWG cable with 20A 3AG fused auto accessory plug hard-wired to pcb terminals for secure, low-loss connection. See table for connector options.
Start Delay	<2 Seconds
Turn-On Overshoot	<.5%
Efficiency	>95% at full load with 12Vdc input. (Measured at PCB input and output).
Switching Frequency	150kHz +/- 10%
Switching Noise	< 50mV pk-pk at full load, 20MHz BW
Output Cable	48" 16AWG cable hardwired to pcb terminals. Application end is terminated to mate with desired application. See table for connector options.
Ripple	1% of rated voltage maximum
Voltage Setpoint Accuracy	+/-1% typical
Combined Line and Load Voltage Regulation	+/- 1% at load connections
Output Power Indicator	Green LED (TBD)

Input Configuration





Pin Out Code	Center contact positive (+)	
Description	Mobile/ Auto plug with fuse protection	
Suggested Mating	Plugs into standard auto accessory socket	
Other connectors (standard or custom) available upon request		
TUV approvals pending		

02



Pin Out Code	Color-coded cable, red positive (+)	
Description	Eyelet terminals with in-line fuse protection	
Suggested Mating Terminal block/ binding post		
Other connectors (standard or custom) available upon request		

UL & TUV approvals pending

Protection	
Short Circuit	Auto recovery when short is removed.
Current Limiting	125% Min. above rated current.
Input Overvoltage	Adapter shuts down when the input is greater than 16Vdc +/-300mV. Auto recovery when input drops below 15.5Vdc +/- 300mV.
Input Undervoltage	Adapter shuts down when the input is less than 9.5dc +/-250mV. Auto recovery when input rises above 10.5Vdc +/-250mV.
Input Reverse Polarity	Diode protected by blowing input fuse
Output Overvoltage Protection	Adapter shuts down if the output is greater than 120–130% of the rated output voltage.
Thermal Shutdown	The unit is internally protected against all over temperature conditions.

Safety Approvals

Agency Listings Pending: UL & TUV approvals pending. See connector options for detail

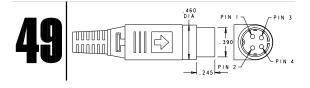
Mechanical

Case Dimensions	3.25L x 2.375W x 1.15H (in)
Weight	12.6 oz. with input/output harness

Environmental

Operating Temperature	-40°C to +55°C	
Storage Temperature	-20°C to 85°C	

Output Connector



Pin Out Code	Pins 1 & 2 positive (+). Pins 3 & 4 return (-)	
Description	Snap & lock power plug/ 4 pin/ prefer 20AWG	
Suggested Mating	Kycon KPJ-4S	
Other connectors (standard or custom) available upon request		
UL & TUV approvals pending		

