



TSP™

Total System Power Outside Cable Plant Network Power Supply/UPS

The TSP™ is the industry's most rugged powering/UPS solution. It has the widest temperature operating range, and for increased reliability, does not require a cooling fan. Additionally, all printed circuit boards are conformally coated, providing protection against moisture and corrosion. Designed for 158F (70C) operation, the TSP continues to provide reliable power, even in the most extreme conditions.



FEATURES

- Industry's most rugged powering/UPS solution.
- Wide thermal operating range
- No fan required for increased reliability
- Conformally coated PCB's
- Zero transfer time
- Flexible modular design
- 3, 6, 15, 18 and 22 Amp versions available
- Bright scrolling display shows: Status, Input V+I, Output V+I, Battery V+I without keystrokes
- Universal electronics/inverter module, works with all battery and input/output voltages
- Now available as kits or individual modules
- New for 2009:
 - Improved firmware with expanded feature set
 - "Embedded" HMS/DOCSIS 2.0 Transponder
- *Now backed by Myers +30 years powering experience!*

Myers Power Products, Inc.
44 S Commerce Way
Bethlehem, PA 18017

Tel: (610) 868-3500
Fax: (610) 868-8686
www.myerspowerproducts.com

Specifications *1

Electrical	3 Amp	6 Amp	15 Amp	18 Amp	22 Amp
AC Mains Input (VAC):	120	120	120 or 240	120	240
AC Mains Input Voltage Tolerance:	Standard: -20 to +10%, Extended: CTSPM9156120-5 is +/- 30%				
Mains Frequency (Hz):	Both 50 and 60Hz models typically avail., nominal frequency stable to +/- 3Hz maximum				
Battery String Voltage (VDC):	36	36	36 or 48	48	48
Output Voltage (VAC)*2:	Quasi-square wave 60, 75 or 87VAC user selectable. Factory safety set to 60VAC				87VAC
Input Power Factor:	0.9 nominal				
Load Power Factor:	0.85 - 1 non-reactive				
Full Load Efficiency:	90% mains/85% inverter				
Transfer Time:	Zero, uninterrupted output				
Battery Charging current:	Default: 10 Amps minimum at full load, Programmable				
Battery Temperature Sensing:	Post mounted, 1 to 4				
Battery Temp. Compensation:	Default: -5mV/°C/Cell from -40 to 50°C, fixed above 50°C, Programmable				
Battery Low Voltage Cutoff:	Default: 1.75V/Cell, Programmable				
Battery Recharge Time:	Typical 80 AH battery will reach 90% capacity in 8 hours				
Mechanical	3 Amp	6 Amp	15 Amp	18 Amp	22 Amp
Module Dims TM (HxWxD):	7.6x10.2x11.6 Inches (19.3x26x29.5 cm)			7.6x10.2x12.6 Inches (19.3x26x32 cm)	
Module TM Weight:	42 lbs (19 Kg)	50 lbs (23 Kg)	60 lbs (27 Kg)	70 lbs (32 Kg)	82 lbs (37 Kg)
Module Dims EM (HxWxD):	8.3x8x12.3 (21x20.3x31.2 cm)				
Module EM Weight:	17 lbs (8 Kg)				
Mated TM/EM Dims:	8.3x15.8x12.3 Inches (21x40.1x31.3 cm)			8.3x15.8x12.6 Inches (21x40.1x32 cm)	
Environmental/Agency Specifications					
Operating Temperature:	-40 to 158°F (-40 to 70°C)				
Relative Humidity:	up to 95% (non-condensing)				
Agency Approvals:	UL® 1950, FCC Part 15 Class A, ANSI/IEEE C62.41-1991, Cat B3 (requires CTSP-SP surge protection plug-in option)				

*Note 1: Specifications subject to change. *Note 2: Output voltages shown are for North American models.

Modules*3 - power supplies can also be provided packaged as complete "kits"

Model Number	Type	AC Out	Amp	Hz	AC In/Tol	Batt	Model Number	Type	AC Out	Amp	Hz	AC In/Tol	Batt
CTSPM9036120-3	TM	60/75/87	3	60	120 / Std	36	CTSPM9156240-3	TM	60/75/87	15	60	240 / Std	36
CTSPM9066120-3	TM	60/75/87	6	60	120 / Std	36	CTSPM9156240-2	TM	60/75/87	15	60	240 / Std	48
CTSPM9156120-3	TM	60/75/87	15	60	120 / Std	36	CTSPM9186120-2	TM	60/75/87	18	60	120 / Std	48
CTSPM9156120-5	TM	60/75/87	15	60	120 / Ext	36	CTSPM9226240-2	TM	87	22	60	240 / Std	48
CTSPM6155240-3	TM	48/60	15	50	240 / Std	36	CTSP-EM48-1	EM	Universal design, used with all TM's				

*Note 3: Model list is not comprehensive

Accessories

Model Number	Description
CTSP-SPL	TSP Surge Protector, one each for AC input and output <i>Now with LED indicator</i>
CTSP-SM7	TSP Analog Status Monitoring Module
CTSP-SM5	TSP HMS/Digital Status Monitoring Module
CTSP-SM8	TSP Embedded HMS/DOCSIS2.0 Transponder
CTSPBCK-31	TSP SM5/8 Battery Harness Cable, one per battery string

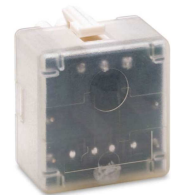


"Power Products by Power Professionals"

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CTSP-SM5



CTSP-SPL



CTSP-SM8

Feb-10

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