

**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.



NEW!
TSP now can display*:

- Transponder data:
 - firmware rev#
 - Status
 - Mode (single/dual)
 - MAC address(es)
 - IP address(es)
 - RX and TX power in dBmV
 - RX and TX freq in MHz
 - RX and TX modulation type
 - RX and TX symbol rate
- Individual Battery Voltages**

*requires updated CTSP-SM8
**also available on updated CTSP-SM5-1

FEATURES

- Industry's most rugged powering/UPS solution
- Wide thermal operating range
- No fan required for increased reliability
- Up to 94% efficient when on-line
- 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
- Improved firmware with expanded feature set
- "Embedded" HMS/DOCSIS and HMS/EuroDOCSIS Transponders
- *Now backed by Myers +30 years powering experience!*

Specifications *1

Electrical	3 Amp	6 Amp	15 Amp	18 Amp	22 Amp
AC Mains Input Nominal (VAC)*2:	120	120	120, 220, 230, 240	120, 240	220, 230, 240
AC Mains Input Voltage Tolerance:	Standard: -20 to +10%, Extended: CTSPTM9156120-5 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	36 or 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				
Load Efficiency:	up to 94% mains/85% inverter				
Transfer Time:	Zero, uninterrupted output				
Battery Charging current:	Default: 10 Amps minimum at full load, Programmable to 2Amps				
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-SPL surge protection plug-in option)				

*Note 1: Specifications subject to change. *Note 2: Input voltages of 220 and 230 are 50Hz only

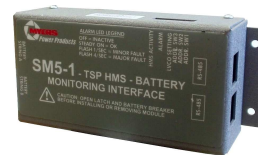
Modules*3 - power supplies can also be provided packaged as complete "kits"

Model Number	Type	AC Out	Amp	Hz	AC In/Tol	Batt	Model Number	Type	AC Out	Amp	Hz	AC In/Tol	Batt
CTSPTM9036120-3	TM	60/75/87	3	60	120 / Std	36	CTSPTM9156120-2	TM	60/75/87	15	60	120 / Std	48
CTSPTM9066120-3	TM	60/75/87	6	60	120 / Std	36	CTSPTM9156240-2	TM	60/75/87	15	60	240 / Std	48
CTSPTM9156120-3	TM	60/75/87	15	60	120 / Std	36	CTSPTM9155220-2	TM	60/75/87	15	50	220 / Std	48
CTSPTM9156120-5	TM	60/75/87	15	60	120 / Ext	36	CTSPTM9155230-2	TM	60/75/87	15	50	230 / Std	48
CTSPTM9156240-3	TM	60/75/87	15	60	240 / Std	36	CTSPTM9186120-2	TM	60/75/87	18	60	120 / Std	48
CTSPTM9155220-3	TM	60/75/87	15	50	220 / Std	36	CTSPTM9226240-2	TM	87	22	60	240 / Std	48
CTSPTM9155230-3	TM	60/75/87	15	50	230 / Std	36	CTSP-EM48-1	EM	Universal 60Hz design, used with all 60Hz TM's				
CTSPTM9186120-3	TM	60/75/87	18	60	120 / Std	36	CTSP-EM48-2	EM	Universal 50Hz design, used with all 50Hz TM's				

*Note 3: Model list is not comprehensive. 50Hz TM's must purchase power cord separately.

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-SM5-1	TSP HMS/Digital Status Monitoring Module
CTSP-SM8	TSP Embedded HMS/DOCSIS2.0 Transponder
CTSP-SM8E	TSP Embedded HMS/EuroDOCSIS Transponder
CTSPBCK-31	TSP SM5/8 Battery Harness Cable, one per battery string
960-0563	TSP Power cord, UK style, BS1363 plug
960-0565	TSP Power cord, Euro style, CEE7/7 plug
960-0567	TSP Power cord, AS style, AS3112 plug
CT-0W5514A	TSP cable to retro Myers into another brand enclosure



CTSP-SM5-1



CTSP-SPL



CTSP-SM8

Power Products by Power Professionals

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