

Industrial Power Supplies

**POWER
SOLVE**

www.powersolve.co.uk

TSP Series, Function Modules

Features

- TSP-REM redundancy module with active current sharing for highly reliable parallel operation
- TSP-BCM battery controller module to configure a professional DC-backup systems (DC-UPS)
- TSP-BAT battery packs with capacity from 3.4 to 12Ah
- TSP-BFM buffer module to bridge voltage dips and black-outs up to 4 seconds without batteries



Specifications



Redundancy Module

With this module and two power supplies of the TSP series, a highly reliable, true redundant power system can be configured without any additional components. This module provides:

- Operation with true current sharing
- Alarm outputs & redundancy OK signal
- Hot swappable inputs can be loaded up to 15A each (25A with model TSP-REM600)

Battery Controller Module

This module provides a professional battery controller to charge and monitor an external lead-acid battery. Together with a power supply from the TSP series and a battery pack, a perfect DC-UPS system can be configured. This module provides:

- Battery protection for overvoltage, deep discharge, short circuit and reverse connection
- Remote On/Off for battery & PSU
- Alarm outputs for input, output & battery
- Controlled end of charge voltage by temperature sensor



Battery Packs

Sealed, maintenance free lead-acid batteries including wall mounting kit. Available with 3.4, 7.2 and 12Ah capacity.

Buffer Module

This module will maintain the output voltage of a 24VDC power supply during typical mains faults, short time black-outs or voltage dips of up to ten full 50Hz cycles. During this buffer period, no deterioration of the 24VDC output voltage will occur. This module provides:

- Guaranteed hold up time 200mS@25A to 4s@1.2A max.
- Capacitor bank for energy storage
- Output 24 to 28VDC, 600W max.
- Active ready and inhibit signals



Redundancy Module

MODEL	Input	max. Power per input	Output V Adjust	Output P max.
TSP-REM360	2 x 24VDC	360W	24VDC	360W
TSP-REM600	2 x Control	600W	(24-27VDC)	600W

Battery Controller Module

MODEL	Input	max. Power per input	Output V nom.	Output P max.
TSP-BCM24	24VDC and	360W	24VDC	360W
TSP-BCM24A	24V Battery	600W	24VDC	600W

Battery Pack

MODEL	Nominal Voltage	Charge Current max.	Capacity (at 25°C)
TSP-BAT24-034		0.80A	3.4Ah
TSP-BAT24-072	24VDC	1.75A	7.2Ah
TSP-BAT24-120		3.00A	12Ah

Buffer Module

MODEL	Nominal Voltage	Charge Current max. (typ.)	Capacity (at 25°C)
TSP-BFM24	24-28VDC	200mS@25A 4s@1.2A	600W

Dimensions Function Modules

TYPE	Width	Height	Depth
TSP-REM360	35 (1.38)	110 (4.33)	110 (4.33)
TSP-REM600	54 (2.13)	110 (4.33)	110 (4.33)
TSP-BCM24	35 (1.38)	110 (4.33)	110 (4.33)
TSP-BCM24A	35 (1.38)	110 (4.33)	110 (4.33)
TSP-BFM24	54 (2.13)	110 (4.33)	110 (4.33)

Dimensions Battery Packs

TYPE	Width	Height	Depth
TSP-BAT24-034	137 (5.39)	140 (5.51)	76 (2.99)
TSP-BAT24-072	133 (5.24)	157 (6.18)	110 (4.33)
TSP-BAT24-120	199 (7.83)	157 (6.18)	110 (4.33)