

**TSP-BFM24 Buffer Module**

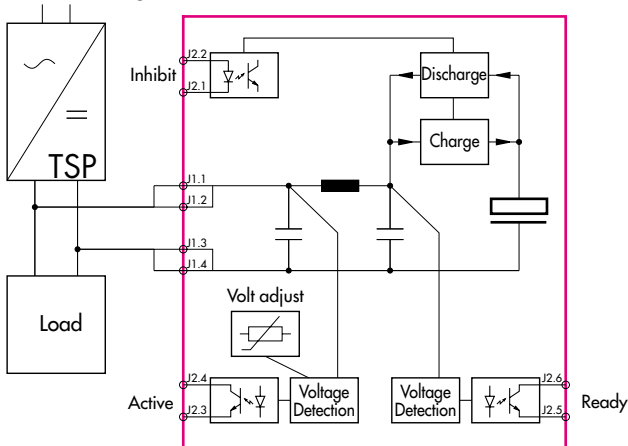
The TSP-BFM24 buffer module will hold the output voltage of a 24 VDC power supply after brown outs or voltage dips of up to ten full 50 Hz cycles. During this buffer period no deterioration of the 24 VDC output voltage will occur. For many applications this buffer module is an ideal and cost effective alternative to a battery based backup system. The buffer module consists of a large bank of capacitors. When the power supply is switched on, the buffer capacitors will be charged. This will take approximately 30 second and an opto-coupler signal indicates the "READY" condition. When a power fail occurs, the capacitor bank is discharged, maintaining the output of the buffer module at its nominal voltage. This condition is indicated by an "POWER FAIL" signal. The hold up time is typically 200 ms at 25 A and 4 seconds typically at 1,2 A. After 4 seconds the buffer device will switch off the output voltage. The operating modes of the module are also indicated by a LED on the front panel also. The major advantage of this buffer solution is, that it is fully maintenance free and its storage capability does not deteriorate over the live time of the product.



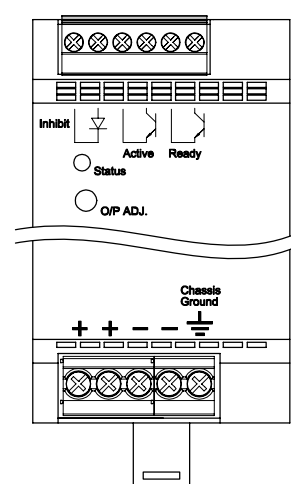
**Models**

Order code (includes terminal plugs)	Operating Voltage Range	Buffer Time	Output Power max.
TSP-BFM24	24...28VDC	200ms typ. @ 25A max. 4.0 s max. @ 1.2A	600 W

Function Diagram



Connector Positions

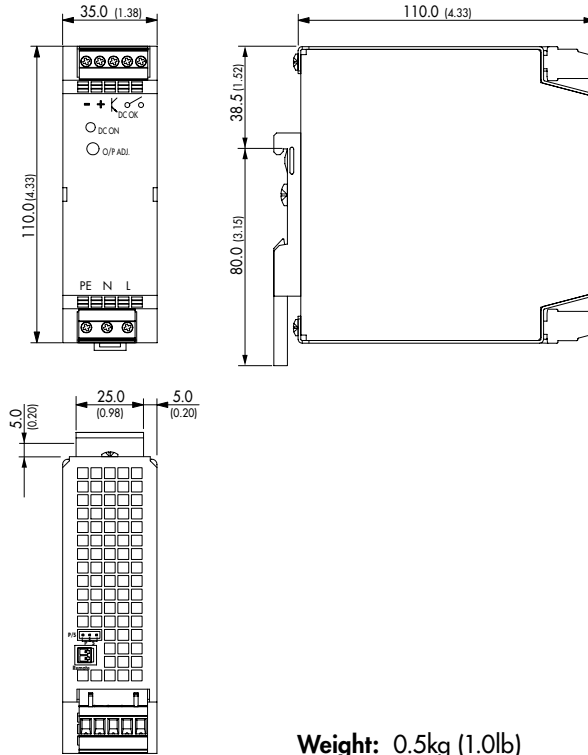


**Specifications**

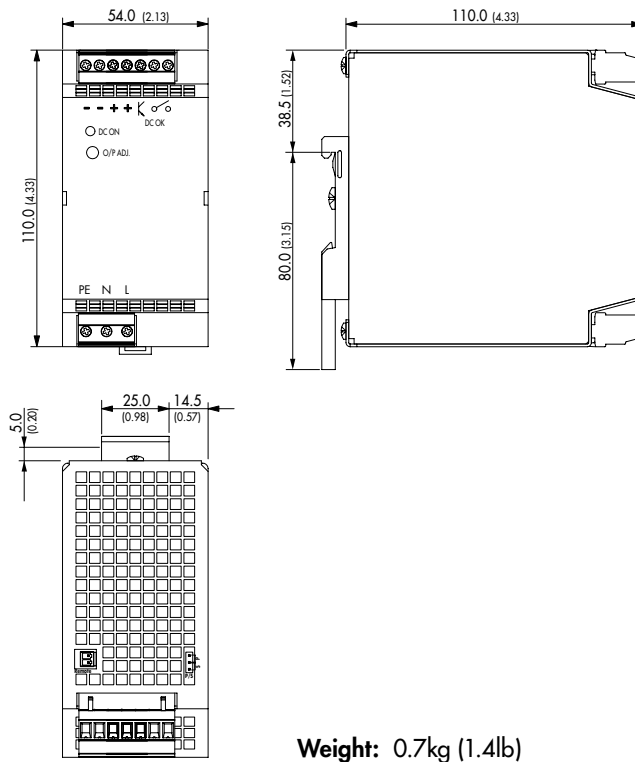
Operating temperature	- 25 °C to 70°C max. (-13°F to 158 °F) derating above 40 °C (104 °F): 1.5 %/K
Electromagnetic compatibility	in correspondence to connected units (no internal switching device)
Buffer voltage	adjustable, >1V below input voltage, min. 22VDC
Charging	0.6A max. / 30s max.
Status signals	Buffer Active , Buffer Ready (optocoupler output) and dual colour LED for status indication
Inhibit	optocoupler input: 35V max. <5mA
Dimensions	see page 10
Installation instructions	<a href="http://www.tracopower.com/products/tsp-bfm_inst.pdf">www.tracopower.com/products/tsp-bfm_inst.pdf</a>

**Outline Dimensions**

**Models:**  
TSP 070/090  
TSP-REM360  
TSP-BCM24



**Models:**  
TSP 140/180  
TSP-REM600  
TSP-BCM24H  
TSP-BFM24



Dimensions in [mm], ( ) = inch  
Tolerances:  $\pm 0.5$  mm ( $\pm 0.02$ )