Power supply module **MP40V10A, MP150V3A**

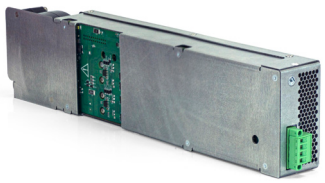
The power supply module provides self-monitoring when turned on as part of the power supply unit.
The power module provides DC voltage and DC power reproduction over a single channel.
The power module provides two modes of operation:

- DC voltage stabilization mode – in this mode, the power supply module reproduces the set value of the DC voltage;
- DC power stabilization mode – in this mode, the power module reproduces the set DC power value.

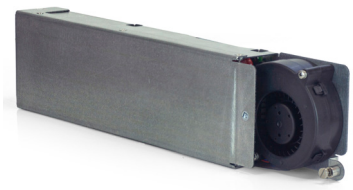
The power supply module provides output overcurrent protection and short-circuit protection with the ability to return to operating mode.

Specifications

MP40V10A



MP150V3A



Technical characteristics in DC voltage stabilization mode		
The range of the playback DC voltage	1 – 150 V	0,1 – 40 V
Step of setting the reproducible DC voltage	0,01 V	
Limits of permissible absolute error of output voltage reproduction, V	$\pm (0{,}1 \cdot 10^{-2} U_{уст} + 0{,}15)$	$\pm (0{,}1 \cdot 10^{-2} U_{уст} + 0{,}04)$
Limits of permissible absolute error of measurement of output voltage, V	$\pm (0{,}1 \cdot 10^{-2} U_{изм} + 0{,}15)$	$\pm (0{,}1 \cdot 10^{-2} U_{изм} + 0{,}04)$
Instability of the output voltage when the supply voltage changes within (220 ± 22) V	no more than ± 15 mV	no more than ± 10 mV
Instability of the output voltage when the load current changes from 100 to 10% of the final value of the measurement range	no more than ± 50 mV	no more than ± 16 mV
Station for cathodic protection of the output voltage ripple level at the output current up to 90 % of the final value of the measurement range	no more than 20 mV	no more than 8 mV
Technical characteristics in DC power stabilization mode		
Range of reproducible DC power	0,1 – 3 A	0,1 – 10 A
Step of setting the reproducible DC power	0,01 A	
Limits of permissible absolute error in reproducing the output current, A	$\pm (0{,}15 \cdot 10^{-2} I_{уст} + 0{,}03)$	$\pm (0{,}15 \cdot 10^{-2} I_{уст} + 0{,}06)$
Limits of permissible absolute error in measuring the output current, A	$\pm (0{,}15 \cdot 10^{-2} I_{изм} + 0{,}03)$	
Instability of the output current when the supply voltage changes within (220 ± 22) V	no more than ± 10 mA	
Instability of the output current when changing the output voltage at the load from 100 to 10% of the final value of the measurement range	no more than ± 10 mA	
Output power value of	at least 400 W	
The value of the efficiency at the maximum output power of	at least 80 %	
The module has the function of automatic selection of the output range, which allows you to get the rated power at different voltages		