

DC power supply switch mode type MPS40



CE - compliant

- Output separated according to VDE 0551
- Extra low safety potential PELV (EN 60204), SELV (EN 60950)
- Overload- and open circuit protected short circuit proof
- Parallel connection possible
- Suitable for the tropics - Epoxy resin casted
- Operating status shown by LED
- Safety acc. to VDE, EN, UL, CSA

Technical data

Input data		
Input voltage AC	85 - 270Volt	0 - 400 Hz
Input voltage DC	120Volt - 400Volt	
Input current at nominal load	at 115VAC max. 0,38A / at 230VAC max. 0,19A	
Input current peak	< 8,5Amp. at 270VAC	
Protective circuit	Transient voltage suppressor Varistor	
Hold-up time	20 mSek. typ.	
Output data		
Output voltage $U_{Nominal}$	see table below	
Output current $I_{Nominal}$	see table below	
Current limiting	approx. 1,2 x I_N	
Residual ripple (20MHz)	< 25mVpp	
Control data		
Control deviation load	< 200mV with load variation 10...90%	
Control deviation supply	< 10mV with supply variation $\pm 10\%$	
Control time	< 10 mSek. with load variation 10...90%	
Operating data		
Duty circle	100%	
Operating temperature range	- 30°C to +70°C	
Derating	from 40°C	
Storage temperature range	-30°C...+105°C	
Cooling	selfcooling	
	recommended respective distance 15mm each	
Safety devices		
Fuse for input	at 115VAC 0,8A delayed / at 230VAC 0,4A delayed	
Fuse for output	not necessary - cont. short-circuit proof	
Overload protection	integrated into device	
MTBF	>380.000 h	
Safety data		
Test voltage transformer	5 kVac in accordance to VDE 0551	
High voltage resistance	Primary circuit - secondary circuit 3,75 kVac acc. to VDE 0806 / IEC 380	
Degree of EMI suppression	in acc. to VDE 0871 B, EN 55022/B	
Protection class	Class 1, with PE connection (EN 60950)	
Extra low safety potential	PELV (EN60204), SELV (EN 60950)	
Ambient humidity	95% relative humidity, yearly average dewing allowed for use in tropical ambient	
Protective class enclosure	IP 65	
Protective class terminals	IP 20 (VGB4)	
Vibration proof	>30g at 33Hz in X,Y and Z, acc. to IEC 60068-2-27	
Applied construction regulations		
according to VDE	VDE 0100, 0110, 0113, 0551, 0160/W2, 0806	
IEC	IEC 60950, IEC61000-6-1-2-3-4, IEC60068-2-3 IEC 60068-2-11-52, IEC 60529, IEC 380	
EN	EN60950, EN50081-1, EN50081-2, EN50082-1 EN61000-6-1-2-3-4, EN50178, EN55022 EN55011, EN61000-3-3, EN50204, EN61558-2-17 EN60204, EN60529, EN61000-4-2-3-4-5-6-8-11 EN60068-1, EN60068-2-1-2-3-6-27-30 EN45501, EN50021	
CSA / UL	CSA-C 22.2 / UL60950, UL508, UL1950	
Mechanics		
Mounting	with screws	

Nominal output voltage	12,0Vdc	24,0Vdc	
Range of adjustment output voltage	11,5-16,0Vdc	22,5-30,0Vdc	
Type	MPS4012	MPS4024	
Nominal output current	2,5Amp.	1,5Amp.	
Power	30Watt	36Watt	
Efficiency	86%	88%	
Dimensions (W x H x D)	70x94x32	70x94x32	
Weight	approx. 0,50kg	approx. 0,50kg	
Order-No.	58412	58424	

