WIMA SuperCap



Double-Layer Capacitors with very High Capacitances in the Farad Range

Special Features

Technical Data

- Storage capacitors with very high capacitance values from 100 F to 400 F and a rated voltage of 2.5 VDC
- Discharge current up to 80 A
- Maintenance-free
- Series connection possible
- According to RoHS 2002/95/EC

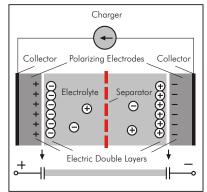
Typical Applications

Suitable for support, protection or replacement of batteries in the field of new traction technologies in

- Automotive
- Railway technology
- Wind power systems
- Uninterruptible power systems (UPS)

Construction

Internal construction:



Encapsulation:

Rectangular aluminium case, sealed by laser welding

Terminations:

FS 6.3 slip-on terminations according to DIN 46244

Marking:

Colour: Red. Marking: Black

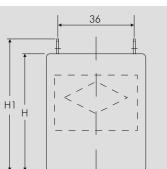
Rated capacitance:	Cr	100 F	200 F	300 F	400 F	
Capacitance tolerance:	-	±20%	±20%	±20%	±20%	
Rated voltage:	Ur	2.5 V	2.5 V	2.5 V	2.5 V	
Rated current:	IC	30 A	45 A	50 A	80 A	
Pulse current:	IР	up to 200 A	up to 300 A	up to 400 A	up to 600 A	
Internal resistance:	Rdc	12 m Ω	7 mΩ	6 mΩ	4 mΩ	
Max. stored energy:±20%	Emax.	313 J	625 J	938 J	1250 J	
Operating temperature:	Тор	-30° C +65° C				
Storage temperature:	Tst	-40° C +70° C				
Weight:	m	40 g	62 g	90 g	95 g	
Volume:	v	0.028	0.047 l	0.075 l	0.075 l	

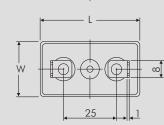
Additional Data

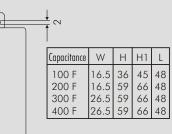
Case:	-	Al99.5	Al99.5	Al99.5	Al99.5
Lug terminal:	-	Brass	Brass	Brass	Brass

Comparative Data

Density of capacitance:					
gravimetric	Cd	2500 F/kg	3200 F/kg	3400 F/kg	4300 F/kg
volumetric	Cv	3600 F/I	4600 F/I	4400 F/I	5900 //kg
Energy density:					
gravimetric	Ed	2.2 Wh/kg	2.8 Wh/kg	3.0 Wh/kg	3.8 Wh/kg
volumetric	Εv	3.2 Wh/l	3.7 Wh/l	4.0 Wh/l	5.4 Wh/l







Dims. in mm.

Lug terminals for 6.3 mm slip-on connection.

When connected in series cases should be kept isolated.

Rights reserved to amend design data without prior notification

08.07