WIMA SuperCap MR100-5 NEW

Double-Layer Capacitor Module with very High Capacitance

Special Features

- Storage capacitor module with very high capacitance value of 100 F and a rated voltage of 5 VDC
- Discharge current up to 400 A
- Maintenance-free
- Series connected
- Passively balanced
- According to RoHS 2002/95/EC

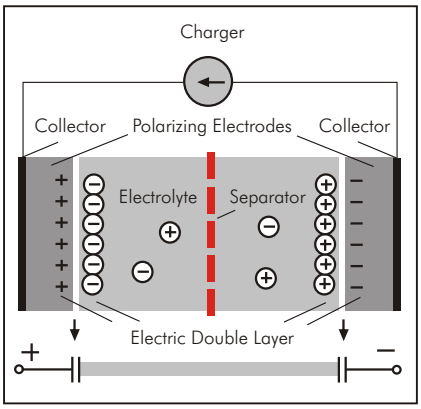
Typical Applications

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 principle:



Encapsulation:
Rectangular aluminium case, sealed by laser welding
Terminations:
Lug terminals
Marking:
Colour: Black. Marking: Gold

Technical Data

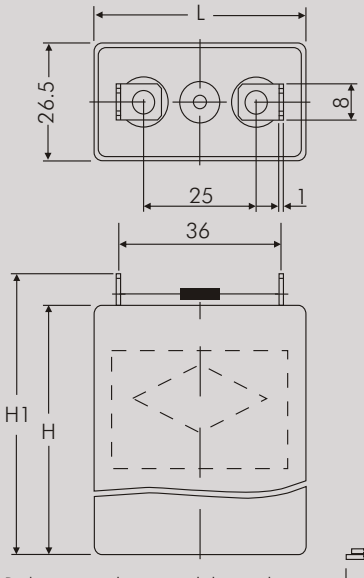
Capacitance:	C_N	**100 F**
Capacitance tolerance:	-	±20%
Rated voltage:	U_R	5 V
Rated current:	I_C	50 A
Pulse current:	I_P	up to 400 A
Internal resistance:	R_{DC}	18 mΩ
Max. energy:±20%	$E_{max.}$	3 kJ
Operating temperature:	T_{op}	-30° C … +65° C
Storage temperature:	T_{st}	-40° C … +70° C
Weight:	m	360 g
Volume:	V	0.25 l

Additional Data

Case:	-	$Al_{99.5}$
Lug terminals:	-	Brass
Number of single cells	-	3 x 300 F type

Comparative Data

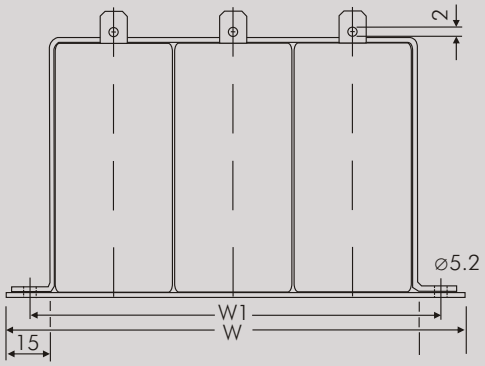
Density of capacitance:		
gravimetric	C_d	300 F/kg
volumetric	C_V	400 F/l
Energy density:		
gravimetric	E_d	1.6 Wh/kg
volumetric	E_V	2.8 Wh/l



Capac-itance	W	W1	H	H1	L
3 x 300 F	110	95	59	74	51

Dims. in mm.

Lug terminals for 6.3 mm slip-on connection.



WIMA SuperCap MR100-14 NEW

Double-Layer Capacitor Module with very High Capacitance

Special Features

- Storage capacitor module with very high capacitance value of 100 F and a rated voltage of 14 VDC
- Discharge current up to 800 A
- Maintenance-free
- Series connected
- Actively or passively balanced
- According to RoHS 2002/95/EC

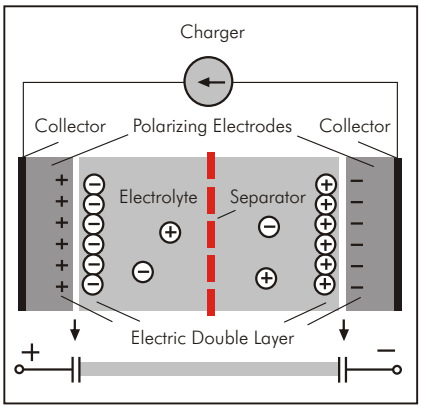
Typical Applications

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 principle:



Encapsulation:
Metal case
Terminations:
FS 6.3 slip-on terminations according to DIN 46244
Marking:
Colour: Black. Marking: Gold

Technical Data

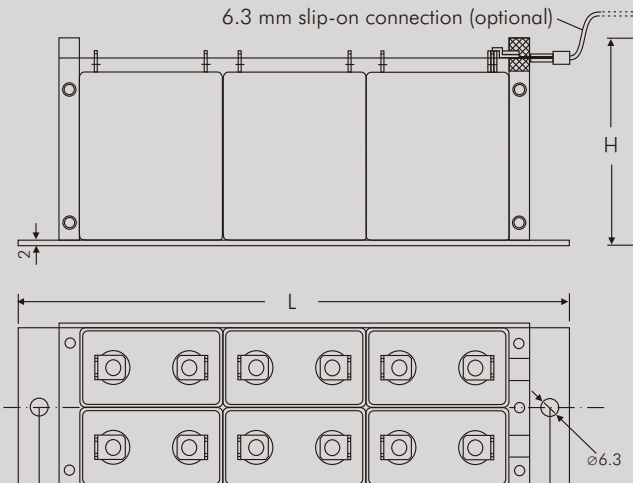
Capacitance:	C_N	**100 F**
Capacitance tolerance:	-	±20%
Rated voltage:	U_R	14 V
Rated current:	I_C	100 A
Pulse current:	I_P	up to 800 A
Internal resistance:	R_{DC}	18 mΩ
Max. energy: ±20%	$E_{max.}$	11.5 kJ
Operating temperature:	T_{op}	-30° C … +65° C
Storage temperature:	T_{st}	-40° C … +70° C
Weight:	m	1100 g
Volume:	V	0.93 l

Additional Data

Case:	-	Al99.5
Lug terminals:	-	Brass
Number of single cells:	-	6 x 600 F

Comparative Data

Density of capacitance:		
gravimetric	C_d	91 F/kg
volumetric	C_V	108 F/l
Energy density:		
gravimetric	E_d	2.6 Wh/kg
volumetric	E_V	3.1 Wh/l



Dims. in mm.

Lug terminals for 6.3 mm slip-on connection.

Capac-itance	W	H	L	L1
6 x 600 F	58	97	204.5	187.5

WIMA SuperCap MR 450-16 NEW

Double-Layer Capacitor Module with very High Capacitance

Special Features

- Storage capacitor module with very high capacitance value of 450 F and a rated voltage of 16 VDC
- Discharge current up to 3000 A
- Maintenance-free
- Series connected
- Actively or passively balanced
- According to RoHS 2002/95/EC

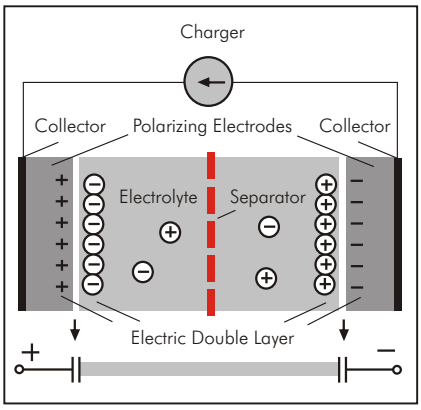
Typical Applications

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 principle:



Encapsulation:
Metal case
Terminations:
Screw connection M8
Marking:
Colour: Black. Marking: Gold

Technical Data

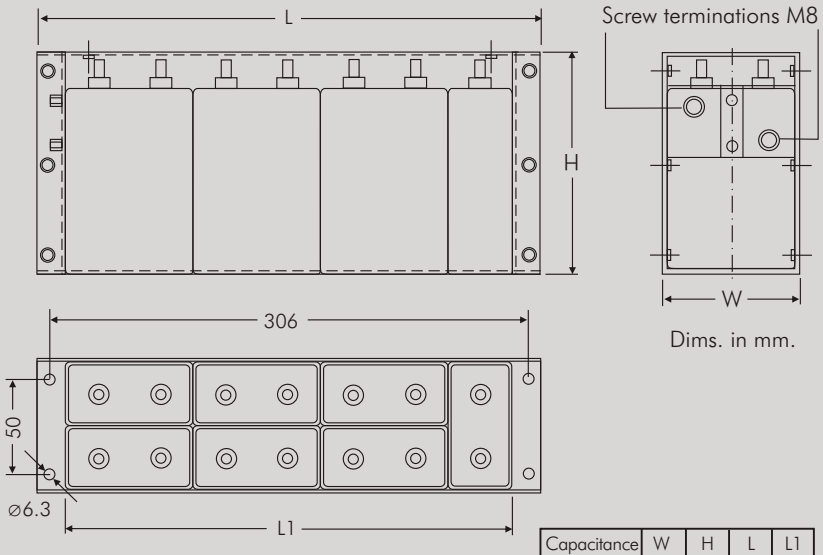
Capacitance:	C_N	**450 F**
Capacitance tolerance:	-	±20%
Rated voltage:	U_R	16 V
Rated current:	I_C	800 A
Pulse current:	I_P	up to 3000 A
Internal resistance:	R_{DC}	3.5 mΩ
Max. energy: ±20%	$E_{max.}$	70 kJ
Operating temperature:	T_{op}	-30° C … +65° C
Storage temperature:	T_{st}	-40° C … +70° C
Weight:	m	5500 g
Volume:	V	4.7 l

Additional Data

Case:	-	$Al_{99.5}$
Screw terminations:	-	2 x M8
Number of single cells:	-	7 x 3000 F

Comparative Data

Density of capacitance:		
gravimetric	C_d	82 F/kg
volumetric	C_V	96 F/l
Energy density:		
gravimetric	E_d	3.1 Wh/kg
volumetric	E_V	3.6 Wh/l



Dims. in mm.

Capacitance	W	H	L	L1
7 x 3000 F	85	172	323	285