SKYBERGTECH

U Mototechny 107
251 62 Tehovec
Czech Republic

Tel.: +420 323605511
+420 323660013
Fax: +420 323607922

http://www.skybergtech.com

E-mail: info@skybergtech.com

DC interference suppression filters
series: B

Description:

It is a simple LC circuit consisting of chokes and condensers. In DC filters of series SKY1FLDCxxB is a composed choke formed by 2 windings. The used safety condensers of type X are being wired among positive and negative pole for filtration of symmetrical component. The condensers of type Y are being wired towards the ground for filtration of asymmetric component.

SKY1FLDC25B

TECHNICAL PARAMETERS :

Nominal operating voltage	Un : 1200Vdc
Extent of operating currents	In : 25A
Short-term overcurrent capacity : 50% In	
Protection class : IP20	
Extent of operating temperature : 0°C + 40°C	

SKY1FLDC32B

TECHNICAL PARAMETERS :

Nominal operating voltage	Un : 1200Vdc
Extent of operating currents	In : 32A
Short-term overcurrent capacity : 50% In	
Protection class : IP20	
Extent of operating temperature : 0°C + 40°C	

SKY1FLDC50B

TECHNICAL PARAMETERS :

Nominal operating voltage	Un : 1200Vdc
Extent of operating currents	In : 50A
Short-term overcurrent capacity : 50% In	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

SKY1FLDC60B

TECHNICAL PARAMETERS :

Nominal operating voltage	Un : 1200Vdc
Extent of operating currents	In : 60A
Short-term overcurrent capacity : 50% In	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

SKY1FLDC75B

TECHNICAL PARAMETERS :

Nominal operating voltage	**Un : 1200Vdc**
Extent of operating currents	**In : 75A**
Short-term overcurrent capacity : 50% In	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

SKY1FLDC90B

TECHNICAL PARAMETERS :

Nominal operating voltage	**Un : 1200Vdc**
Extent of operating currents	**In : 90A**
Short-term overcurrent capacity : 50% In	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

SKY1FLDC100B

TECHNICAL PARAMETERS :

Nominal operating voltage	**Un : 1200Vdc**
Extent of operating currents	**In : 100A**
Short-term overcurrent capacity : 50% In	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

SKY1FLDC150B

TECHNICAL PARAMETERS :

Nominal operating voltage	**Un : 1200Vdc**
Extent of operating currents	**In : 150A**
Short-term overcurrent capacity : 50% In	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

SKY1FLDC200B

TECHNICAL PARAMETERS :

Nominal operating voltage	**Un : 1200Vdc**
Extent of operating currents	**In : 200A**
Short-term overcurrent capacity : 50% In	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

SKY1FLDC250B

TECHNICAL PARAMETERS :

Nominal operating voltage	**Un : 1200Vdc**
Extent of operating currents	**In : 250A**
Short-term overcurrent capacity : 50% In	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

SKY1FLDC300B

TECHNICAL PARAMETERS :

Nominal operating voltage	**Un : 1200Vdc**
Extent of operating currents	**In : 300A**
Short-term overcurrent capacity : 50% In	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

SKY1FLDC320B

TECHNICAL PARAMETERS :

Nominal operating voltage	**Un : 1200Vdc**
Extent of operating currents	**In : 320A**
Short-term overcurrent capacity : 50% In	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

SKY1FLDC400B

TECHNICAL PARAMETERS :

Nominal operating voltage	**Un : 1200Vdc**
Extent of operating currents	**In : 400A**
Short-term overcurrent capacity : 50% In	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

SKY1FLDC500B

TECHNICAL PARAMETERS :

Nominal operating voltage	**Un : 1200Vdc**
Extent of operating currents	**In : 500A**
Short-term overcurrent capacity : 50% In	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

SKY1FLDC600B

TECHNICAL PARAMETERS :

Nominal operating voltage	**Un : 1200Vdc**
Extent of operating currents	**In : 600A**
Short-term overcurrent capacity : 50% In	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

SKY1FLDC800B

TECHNICAL PARAMETERS :

Nominal operating voltage	**Un : 1200Vdc**
Extent of operating currents	**In : 800A**
Short-term overcurrent capacity : 50% In	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

SKY1FLDC1000B

TECHNICAL PARAMETERS :

Nominal operating voltage	**Un : 1200Vdc**
Extent of operating currents	**In : 1000A**
Short-term overcurrent capacity : 50% In	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

SKY1FLDC1200B

TECHNICAL PARAMETERS :

Nominal operating voltage	**Un : 1200Vdc**
Extent of operating currents	**In : 1200A**
Short-term overcurrent capacity : 50% In	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

SKY1FLDC1500B

TECHNICAL PARAMETERS :

Nominal operating voltage	**Un : 1200Vdc**
Extent of operating currents	**In : 1500A**
Short-term overcurrent capacity : 50% In	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

SKY1FLDC1600B

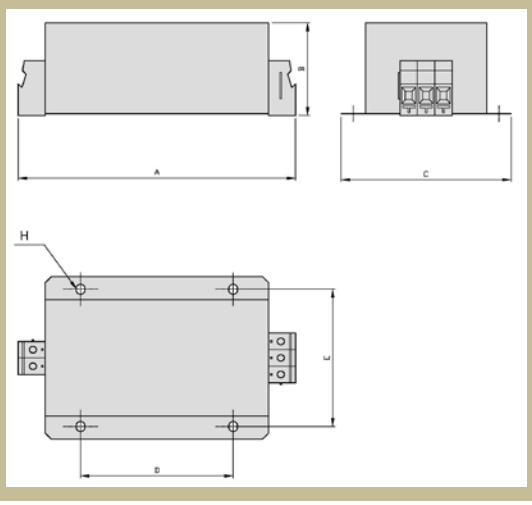
TECHNICAL PARAMETERS :

Nominal operating voltage	**Un : 1200Vdc**
Extent of operating currents	**In : 1600A**
Short-term overcurrent capacity : 50% In	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

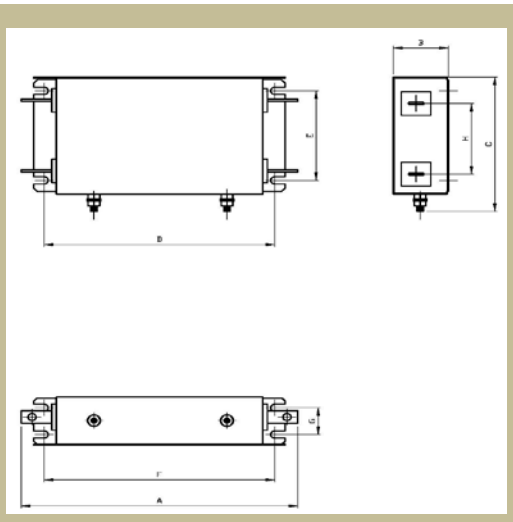
Type	Nominal current [A]	Power loss [W]	Weight [kg]	Conductor cross section [mm]	basic dimensions [mm]							
					A	B	C	D	E	F	G	H
					length	height	width	pitch	pitch	pitch	pitch	other
SKY1FLDC25B	25	9	1	4 - 6	160	56	98	88	83	-	-	5x6
SKY1FLDC32B	32	9	1	6 - 10	160	56	98	88	83	-	-	5x6
SKY1FLDC50B	50	24	3,5	20x3	357	61,5	176	302	114	333	34,5	87,5
SKY1FLDC60B	60	24	3,8	20x3	357	61,5	176	302	114	333	34,5	87,5
SKY1FLDC75B	75	24	5,9	20x3	357	61,5	176	302	114	333	34,5	87,5
SKY1FLDC90B	90	24	5,9	20x3	357	61,5	176	302	114	333	34,5	87,5
SKY1FLDC100B	100	24	5,9	20x3	364	61,5	176	302	114	333	34,5	87,5
SKY1FLDC150B	150	24	5,9	20x3	364	61,5	176	302	114	333	34,5	87,5
SKY1FLDC200B	200	24	5,9	20x3	364	61,5	176	302	114	333	34,5	87,5
SKY1FLDC250B	250	24	5,9	20x3	364	61,5	176	302	114	333	34,5	87,5
SKY1FLDC300B	300	24	5,9	20x3	364	61,5	176	302	114	333	34,5	87,5
SKY1FLDC320B	320	24	5,9	20x3	364	61,5	176	302	114	333	34,5	87,5
SKY1FLDC400B	400	24	5,9	20x3	364	61,5	176	302	114	333	34,5	87,5
SKY1FLDC500B	500	40	14	40x5	390	130	221	200	194	350	-	90
SKY1FLDC600B	600	40	14	40x5	390	130	221	200	194	350	-	90
SKY1FLDC800B	800	40	14	40x10	390	130	221	200	194	350	-	85
SKY1FLDC1000B	1000	40	15	40x10	390	130	221	200	194	350	-	85
SKY1FLDC1200B	1200	40	15	50x10	410	130	231	200	204	370	-	85
SKY1FLDC1500B	1500	40	15	60x10x2	480	130	231	200	204	360	446	85
SKY1FLDC1600B	1600	40	15	60x10x2	480	130	231	200	204	360	446	85

* After a deal there is a possibility of modification of the filter construction according to the customer's request.

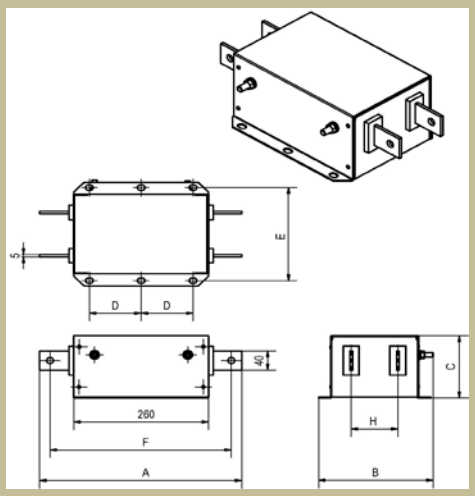
Dimensional drawing : SKY1FLDC25B - SKY1FLDC32B



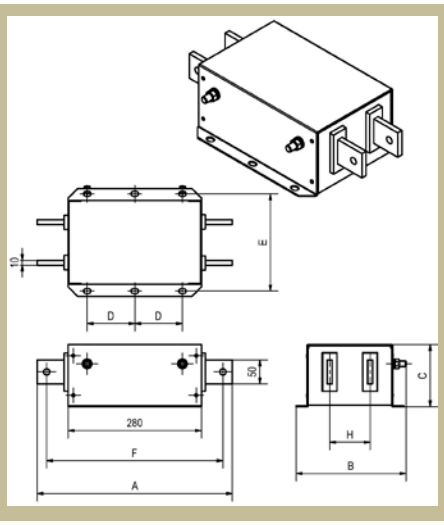
Dimensional drawing : SKY1FLDC50B - SKY1FLDC400B



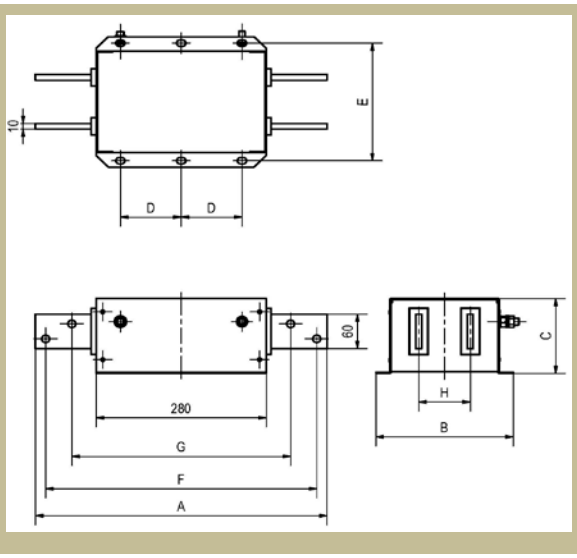
Dimensional drawing : SKY1FLDC500B - SKY1FLDC1000B



Dimensional drawing : SKY1FLDC1200B



Dimensional drawing : SKY1FLDC1500B - SKY1FLDC1600B



Attenuation characteristics:

SKY1FLDC25B - SKY1FLDC1600B

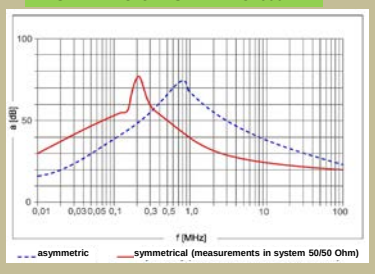
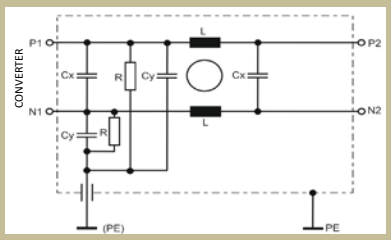


Diagram:

SKY1FLDC32B - 1600B



Use:

The filters are mainly designed for photovoltaic power stations but they can be also used in other applications.

Dimensioning, wiring:

It is supposed to be wired into DC circuit between the inverter and solar panels. The filter is equipped with an insulated PE terminal with possibility of connection according to type of voltage system.
It is dimensioned according to the indicated label values. When installing into switchboards it is necessary to count with power loss of the filter and provide removal of heat loss.