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# КОМПЛЕКТУЮЩИЕ ДЛЯ ПРИВодОВ Техническое описание на фильтры ACS880-BDCL, VL, VL CL, VLHF



# Ratings, types and voltages

$U_N = 500$  V (range 380 to 500 V). The power ratings are valid at nominal voltage 500 V.

Converter type	Frame size	Filter type	No overload use					Short time use (10 s/60 s)			Heavy duty use (1 min/5 min)		Noise level [db(A)]	Heat dissipation [BTU(kW)]	Air flow [cfm(m <sup>3</sup> /h)]
			$I_{dc}$ input DC [A]	$I_{rms}$ output DC [A]	$P_{contmax}$ [kW]	$I_{max}$ output DC [A]	$I_{p2p}$ [A]	$I_{short\ time}$ [A]	$P_{short\ time}$ [kW]	$I_{Hd}$ [A]	$P_{Hd}$ [kW]				
ACS880-1604-0600A-5	R8i	BDCL-14-5	600	600	382	900	27	450	286	510	324	74	20473(6.0)	1295(2200)	
ACS880-1604-0900A-5	R8i	BDCL-15-5	900	900	573	1350	41	675	429	765	487	74	31050(9.1)	1295(2200)	
ACS880-1604-1200A-5	2xR8i	2xBDCL-	1200	1200	764	1800	14	899	572	1020	649	76	41287(12.1)	2590(4400)	
ACS880-1604-1800A-5	2xR8i	2xBDCL-	1800	1800	1146	2700	20	1349	859	1529	973	76	64148(18.8)	2590(4400)	

$U_N = 690$  V (range 525 to 690 V). The power ratings are valid at nominal voltage 690 V.

Converter type	Frame size	Filter type	No overload use					Short time use (10 s/60 s)			Heavy duty use (1 min/5 min)		Noise level [db(A)]	Heat dissipation [BTU(kW)]	Air flow [cfm(m <sup>3</sup> /h)]
			$I_{dc}$ input DC [A]	$I_{rms}$ output DC [A]	$P_{contmax}$ [kW]	$I_{max}$ output DC [A]	$I_{p2p}$ [A]	$I_{short\ time}$ [A]	$P_{short\ time}$ [kW]	$I_{Hd}$ [A]	$P_{Hd}$ [kW]				
ACS880-1604-0400A-7	R8i	BDCL-14-7	400	400	351	600	38	300	263	340	298	74	21838(6.4)	1295(2200)	
ACS880-1604-0600A-7	R8i	BDCL-15-7	600	600	527	900	56	450	395	510	448	74	36169(10.6)	1295(2200)	
ACS880-1604-0800A-7	2xR8i	2xBDCL-14-7	800	800	703	1200	19	600	527	680	597	76	43675(12.8)	2590(4400)	
ACS880-1604-1200A-7	2xR8i	2xBDCL-15-7	1200	1200	1054	1800	28	899	790	1020	895	76	73361(21.5)	2590(4400)	

## ACS880-1604, DC/DC converter, UL (NEMA) Type Open(IP00)

Frame size	Height [in(mm)]	Width [in(mm)]	Depth [in(mm)]	Weight [lb(kg)]
<b>Multidrive module</b>				
R8i	55.00(1397)	9.45(240)	22.95(583)	276(125)
<b>DCL filter</b>				
BDCL-14-5	55.00(1397)	9.45(240)	17.48(444)	430(195)
BDCL-14-7	55.00(1397)	9.45(240)	17.48(444)	430(195)
BDCL-15-5	55.00(1397)	9.45(240)	17.48(444)	496(225)
BDCL-15-7	55.00(1397)	9.45(240)	17.48(444)	496(225)

ACS880-1604 frame R8i



BDCL



# Ratings, types and voltages

$U_N = 690\text{ V}$  (range 525 to 690 V). The power ratings are valid at nominal voltage 690 V.

Converter type	Frame size	Filter type	No overload use			Short time overload cycle (10 s/60 s)			Heavy overload cycle (1 min/5 min)		Noise level [db(A)]	Losses [BTU(kW)]	Coolant flow rate <sup>1)</sup> [GPM(l/min)]	
			$I_{dc\ input\ DC}$ [A]	$I_{rms\ output\ DC}$ [A]	$P_{contmax}$ [kW]	$I_{max\ output\ DC}$ [A]	$I_{p2p}$ [A]	$I_{short\ time}$ [A]	$P_{short\ time}$ [kW]	$I_{Hd}$ [A]				$P_{Hd}$ [kW]
ACS880-1604LC-0400A-7	R8i	BDCL-14LC-7	391	400	351	500	38	250	219	302	266	TBD	14331(4.2)	9.5(36)
ACS880-1604LC-0500A-7	R8i	BDCL-14LC-7	490	500	439	625	38	312	274	378	332	TBD	18084(5.3)	9.5(36)
ACS880-1604LC-0600A-7	R8i	BDCL-15LC-7	590	600	527	750	56	375	329	453	398	TBD	21155(6.2)	9.5(36)
ACS880-1604LC-0700A-7	R8i	BDCL-15LC-7	690	700	615	875	56	437	384	529	465	TBD	24909(7.3)	9.5(36)
ACS880-1604LC-0800A-7	R8i	BDCL-15LC-7	790	800	703	1000	56	500	439	605	531	TBD	29003(8.5)	9.5(36)
ACS880-1604LC-0900A-7	R8i	BDCL-15LC-7	880	900	790	1125	56	562	494	680	597	TBD	33098(9.7)	9.5(36)
ACS880-1604LC-1000A-7	2xR8i	2xBDCL-14LC-7	980	1000	878	1250	19	625	549	756	664	TBD	38216(11.2)	19(72)
ACS880-1604LC-1200A-7	2xR8i	2xBDCL-15LC-7	1180	1200	1054	1500	28	750	658	907	797	TBD	46405(13.6)	19(72)
ACS880-1604LC-1400A-7	2xR8i	2xBDCL-15LC-7	1370	1400	1230	1750	28	874	768	1058	929	TBD	55618(16.3)	19(72)
ACS880-1604LC-1600A-7	2xR8i	2xBDCL-15LC-7	1570	1600	1405	2000	28	999	878	1209	1062	TBD	64831(19.0)	19(72)
ACS880-1604LC-1800A-7	2xR8i	2xBDCL-15LC-7	1760	1800	1581	2250	28	1124	987	1360	1195	TBD	75067(22.0)	19(72)

<sup>1)</sup> Coolant flow rate for the whole converter unit (DC/DC converter module and filter).

## Ratings

### No overload use

$I_{dc\ input}$	Maximum continuous input DC current from DC bus
$I_{rms\ output}$	Maximum continuous output current to/from energy storage
$P_{contmax}$	Maximum continuous output power to/from energy storage
$I_{max\ output}$	Maximum instantaneous output current to/from energy storage
$I_{p2p}$	Maximum output ripple current to/from energy storage

### Short time / heavy overload cycle

$I_{short\ time}$	Continuous output current allowing 10 s of $I_{MAX}$ (DC) every 60 seconds
$P_{short\ time}$	Continuous output power allowing 10 s of $I_{MAX}$ (DC) every 60 seconds
$I_{Hd}$	Continuous output current allowing overload of 150% $I_{hd}$ for 1 min every 5 min
$P_{Hd}$	Continuous output power allowing 150% $I_{hd}$ for 1 min every 5 min

### Losses

$P_{loss}$	Power loss conducted to coolant and emitted to air
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## ACS880-1604LC, liquid-cooled DC/DC converter, UL (NEMA) Type Open(IP00)

Frame size	Height [in(mm)]	Width [in(mm)]	Depth [in(mm)]	Weight [lb(kg)]
<b>Multidrive module</b>				
R8i	34.65(880)	8.27(210)	19.17(487)	139(63) <sup>1)</sup>
<b>DCL filter</b>				
BDCL-14LC-7	39.72(1009)	9.45(240)	17.91(455)	518(235)
BDCL-15LC-7	39.72(1009)	9.45(240)	17.91(455)	584(265)

<sup>1)</sup> For 0400A-7 and 0500A-7 the weight is 130 lb (59 kg).

For 0600A-7 to 0850A-7 the weight is 139 lb (63 kg).

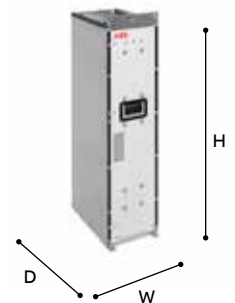
For 1000A-7 the weight is 130 lb (59 kg) per module.

For 1200a-7 to 1800A-7 the weight is 139 lb (63 kg) per module.

ACS880-1604LC



BDCL-15LC-7



# Ratings, types and voltages

$U_N = 400 \text{ V}$  (range 380 to 415 V)

Drive type	Frame size	Nominal ratings				No overload use	Light overload use		Heavy-duty use		Noise level (dB(A))	Heat dissipation (kW)	Air flow (m <sup>3</sup> /h)
		$I_N$ AC (A)	$I_N$ DC (A)	$I_{max}$ DC (A)	$S_N$ (kVA)	$P_N$ DC (kW)	$I_{Ld}$ DC (A)	$P_{Ld}$ DC (kW)	$I_{Hd}$ DC (A)	$P_{Hd}$ DC (kW)			
<b>IGBT supply units (ISU), ACS880-207</b>													
ACS880-207-0420A-3	R8i + BLCL-13-5	423	513	667	293	290	492	279	384	217	72	6.6	2200
ACS880-207-0580A-3	R8i + BLCL-13-5	576	698	908	399	395	670	379	522	296	72	9.3	2200
ACS880-207-0810A-3	R8i + BLCL-15-5	810	982	1277	561	556	943	553	735	416	72	13.3	2200
ACS880-207-1130A-3	2×R8i + BLCL-24-5	1125	1364	1773	779	772	1309	741	1020	577	74	17.2	4100
ACS880-207-1330A-3	2×R8i + BLCL-24-5	1332	1615	2100	923	914	1550	877	1208	683	74	19.5	4100
ACS880-207-1580A-3	2×R8i + BLCL-25-5	1584	1921	2497	1097	1086	1844	1043	1437	813	74	26	4100
ACS880-207-2350A-3	3×R8i + 2×BLCL-24-5	2349	2848	3703	1627	1611	2734	1547	2130	1205	76	40	6900
ACS880-207-3110A-3	4×R8i + 2×BLCL-25-5	3105	3765	4894	2151	2130	3614	2045	2816	1593	76	52.1	8200
ACS880-207-4620A-3	6×R8i + 3×BLCL-25-5	4617	5598	7278	3199	3167	5374	3040	4187	2369	78	78.1	12300
<b>Regenerative rectifier units (RRU), ACS880-907</b>													
ACS880-907-0600A-3	R8i + BL-15-5	600	727	955	416	393	698	377	544	294	72	8.4	2200
ACS880-907-0900A-3	R8i + BL-15-5	900	1091	1433	624	589	1048	566	816	441	72	12.9	2200
ACS880-907-1180A-3	2×R8i + BL-25-5	1180	1431	1879	818	773	1374	742	1070	578	74	15.7	4100
ACS880-907-1770A-3	2×R8i + BL-25-5	1770	2146	2818	1226	1159	2060	1113	1605	867	74	25.2	4100
ACS880-907-2310A-3	4×R8i + 2×BL-25-5	2310	2801	3678	1600	1512	2689	1452	2095	1131	76	31.5	8200
ACS880-907-3460A-3	4×R8i + 2×BL-25-5	3460	4195	5509	2397	2265	4027	2175	3138	1695	76	50.4	8200
ACS880-907-5130A-3	6×R8i + 3×BL-25-5	5130	6220	8168	3554	3359	5971	3225	4653	2512	78	75.6	12300

# Ratings, types and voltages

Supply unit

$U_N = 690 \text{ V}$  (range 525 to 690 V)

Drive type	Frame size	Nominal ratings				No overload use	Light overload use		Heavy-duty use		Noise level (dB(A))	Heat dissipation (kW)	Air flow (m <sup>3</sup> /h)
		$I_N$ AC (A)	$I_N$ DC (A)	$I_{max}$ DC (A)	$S_N$ (kVA)	$P_N$ DC (kW)	$I_{Ld}$ DC (A)	$P_{Ld}$ DC (kW)	$I_{Hd}$ DC (A)	$P_{Hd}$ DC (kW)			
<b>IGBT supply units (ISU), ACS880-207</b>													
ACS880-207-0310A-7	R8i + BLCL-13-7	306	371	557	366	362	356	348	278	271	72	8.7	2200
ACS880-207-0370A-7	R8i + BLCL-13-7	369	447	671	441	437	430	419	335	327	72	10.1	2200
ACS880-207-0540A-7	R8i + BLCL-15-7	540	655	982	645	639	629	613	490	478	72	14.6	2200
ACS880-207-0720A-7	2×R8i + BLCL-24-7	720	873	1309	860	852	838	818	653	637	74	18.4	4100
ACS880-207-1050A-7	2×R8i + BLCL-25-7	1053	1277	1915	1258	1246	1226	1196	955	932	74	27.9	4100
ACS880-207-1570A-7	3×R8i + 2×BLCL-24-7	1566	1899	2848	1872	1853	1823	1779	1420	1386	76	39.6	6900
ACS880-207-2070A-7	4×R8i + 2×BLCL-25-7	2070	2510	3765	2474	2449	2409	2351	1877	1832	76	55.9	8200
ACS880-207-3080A-7	6×R8i + 3×BLCL-25-7	3078	3732	5598	3679	3642	3583	3496	2792	2724	78	83.8	12300
ACS880-207-4100A-7	8×R8i + 4×BLCL-25-7	4104	4976	7464	4905	4856	4777	4661	3722	3632	79	111.7	16400
ACS880-207-5130A-7	10×R8i + 5×BLCL-25-7	5130	6220	9330	6131	6070	5971	5827	4653	4540	79	139.7	20500
<b>Regenerative rectifier units (RRU), ACS880-907</b>													
ACS880-907-0600A-7	R8i + BL-15-7	600	727	1102	717	678	698	651	544	507	72	9.8	2200
ACS880-907-0900A-7	R8i + BL-15-7	900	1091	1653	1076	1016	1048	976	816	760	72	14.3	2200
ACS880-907-1180A-7	2×R8i + BL-25-7	1180	1431	2168	1410	1333	1374	1279	1070	997	74	18.5	4100
ACS880-907-1770A-7	2×R8i + BL-25-7	1770	2146	3252	2115	1999	2060	1919	1605	1495	74	28.1	4100
ACS880-907-2310A-7	4×R8i + 2×BL-25-7	2310	2801	4244	2761	2609	2689	2505	2095	1952	76	37.1	8200
ACS880-907-3460A-7	4×R8i + 2×BL-25-7	3460	4195	6356	4135	3908	4027	3752	3138	2923	76	56.2	8200
ACS880-907-5130A-7	6×R8i + 3×BL-25-7	5130	6220	9424	6131	5794	5971	5562	4653	4334	78	84.3	12300

# Dimensions

## ACS880 air-cooled multidrives

Frame size		Height (mm)	Width (mm)	Depth (mm)	Weight (kg)
<b>ACS880-207 IGBT supply unit (ISU).</b>					
<b>Dimensions include ACU, ICU, ISU and filter.</b>					
R8i+BLCL-13-5	Limited scope <sup>1)</sup>	2145	1000	636	810
	Standard scope <sup>1)</sup>	2145	1600	636	1300
R8i+BLCL-15-5	Limited scope <sup>1)</sup>	2145	1000	636	860
	Standard scope <sup>1)</sup>	2145	1600	636	1300
2×R8i+BLCL-24-5	1040A-5	2145	1800	636	1600
	1130A-3, 1330A-3	2145	2000	636	1720
2×R8i+BLCL-25-5		2145	2000	636	1720
3×R8i+2×BLCL-24-5		2145	2600	636	2410
4×R8i+2×BLCL-25-5		2145	2800	636	2820
6×R8i+3×BLCL-25-5		2145	4000	636	3960
R8i+BLCL-13-7		2145	1600	636	1300
R8i+BLCL-15-7		2145	1600	636	1300
2×R8i+BLCL-24-7		2145	1800	636	1600
2×R8i+BLCL-25-7		2145	1800	636	1600
3×R8i+2×BLCL-25-7		2145	2600	636	2210
4×R8i+2×BLCL-25-7		2145	2800	636	2820
6×R8i+3×BLCL-25-7		2145	3600	636	3720
8×R8i+4×BLCL-25-7		2145	5100	636	4860
10×R8i+5×BLCL-25-7		2145	5900	636	5760
<b>ACS880-907 regenerative rectifier unit (RRU).</b>					
<b>Dimensions include ACU, ICU, RRU and filter.</b>					
1×R8i+BL-15-5		2145	1600	636	1275
2×R8i+BL-25-5		2145	2000	636	1615
4×R8i+2×BL-25-5	2310A-3/5	2145	2800	636	2610
	3460A-3/5	2145	3200	636	2850
6×R8i+3×BL-25-5		2145	4000	636	3645
1×R8i+BL-15-7		2145	1600	636	1275
2×R8i+BL-25-7		2145	2000	636	1615
4×R8i+2×BL-25-7	2310A-7	2145	2800	636	2610
	3460A-7	2145	3200	636	2850
6×R8i+3×BL-25-7		2145	4000	636	3645

<sup>1)</sup> In addition to standard ACS880 multidrive offering, limited scope offering is available with special configuration for 400 V and 500 V, R1i to R7i inverters.

<sup>2)</sup> 2315 mm for IP54 and 2051 mm for IPxxR.

An additional 10 mm required for marine supports.

<sup>3)</sup> Width and weight depend on the amount of inverter units.

With option own compartment (+C204) 400 mm for max. 3 inverters.

<sup>4)</sup> Top exit with backpack for R1i to R7i, additional depth is 130 mm.

<sup>5)</sup> Width and weight depend on the amount of inverter units.

With option own compartment (+C204) 500 mm for max. 2 R5i inverters.

<sup>6)</sup> 300 mm is required for drive control unit (DCU).

One DCU can be used for two drive units.

<sup>7)</sup> Top exit with backpack for n×R8i, additional depth is 190 mm.

<sup>8)</sup> 2315 mm for IP54, and 2051 mm for IPXXR

<sup>9)</sup> It is possible to connect multiple DC/DC converter units in parallel. Please see hardware manual (doc no 3AXD50000023644) for more detailed information.

<sup>10)</sup> Please see hardware manual for further details.

# Dimensions

## ACS880 liquid-cooled multidrives

Frame size	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)
<b>ACS880-207LC IGBT supply unit (ISU).</b>				
<b>Dimensions include ACU, ICU, ISU and filter.</b>				
R7i+BLCL-13LC-7	2002	1300	644	900
R8i+BLCL-15LC-7	2002	1900	644	900
2×R8i+BLCL-24LC-7	2002	2100	644	1030
2×R8i+BLCL-25LC-7	2002	2200	644	1180
3×R8i+2×BLCL-24LC-7	2002	2700	644	1800
4×R8i+2×BLCL-25LC-7	2002	3200	644	2360
5×R8i+3×BLCL-24LC-7	2002	3600	644	2830
6×R8i+4×BLCL-24LC-7	2002	4800	644	3600
8×R8i+4×BLCL-25LC-7	2002	5800	644	4720

Unit type

По вопросам продаж и поддержки обращайтесь:

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**Иркутск** (395)279-98-46  
**Казань** (843)206-01-48

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