

Ratings, types and voltages

ACS800-X04, supply module, $U_N = 500\text{ V}$

ACS800 - X04 - XXXX -

5
7

 + XXXX

Nominal ratings				No-overload use	Light-overload use		Heavy-duty use		Heat dissipation	Type designation	Frame size
$I_{\text{cont. max}}$ A (AC)	$I_{\text{cont. max}}$ A (DC)	I_{max} A (DC)	S_N kVA	$P_{\text{cont. max}}$ kW (DC)	I_N A (DC)	P_N kW (DC)	I_{hd} A (DC)	P_{hd} kW (DC)	kW		

$U_N = 500\text{ V}$ (Range 380 to 500 V). The power ratings are valid at nominal voltage 500 V.

IGBT supply module (ISU)											
5.1	6.1	8.9	4.4	4.4	5.9	4.3	4.4	3.1	0.3	ACS800-204-0004-5	R2i + RLCL-01-5
10.8	13.0	18.9	9.3	9.2	12.5	9.2	9.4	6.7	0.6	ACS800-204-0009-5	R2i + RLCL-02-5
27.7	33.6	48.4	24.0	23.8	32.2	23.8	24.2	17.1	0.9	ACS800-204-0021-5	R3i + RLCL-03-5
39.2	47.4	68.7	33.9	33.6	45.5	33.6	34.3	24.3	1.5	ACS800-204-0031-5	R4i + RLCL-11-5
78.3	94.7	137.9	67.8	67.1	91.0	67.1	69.0	48.8	2.4	ACS800-204-0061-5	R5i + RLCL-12-5
180	218	327	156	154	210	148	163	115	4	ACS800-204-0165-5	R7i + ALCL-04-5
220	267	399	191	189	256	181	200	141	4.4	ACS800-204-0195-5	R7i + ALCL-05-5
270	327	475	234	231	314	222	245	173	6.2	ACS800-204-0230-5	R8i + ALCL-12-5
360	436	633	312	309	419	296	327	231	8.4	ACS800-204-0310-5	R8i + ALCL-13-5
450	546	792	390	386	524	370	408	289	10.6	ACS800-204-0390-5	R8i + ALCL-14-5
600	727	1056	520	514	698	494	544	385	14.9	ACS800-204-0520-5	R8i + ALCL-15-5
900	1091	1584	779	772	1048	741	816	577	21.2	ACS800-204-0780-5	2xR8i + ALCL-24-5
1176	1426	2069	1018	1008	1369	968	1067	754	28.9	ACS800-204-1020-5	2xR8i + ALCL-25-5
1746	2117	3072	1512	1497	2032	1437	1584	1120	42.7	ACS800-204-1510-5	3xR8i + 2xALCL-24-5
2304	2794	4054	1995	1975	2682	1896	2090	1478	56.1	ACS800-204-2000-5	4xR8i + 2xALCL-25-5
3420	4147	6017	2962	2932	3981	2815	3102	2193	83	ACS800-204-2960-5	6xR8i + 3xALCL-25-5

6-pulse diode supply unit (DSU)											
286	350	462	247	229	335	219	280	183	1.5	ACS800-304-0320-7	D3
408	500	700	353	327	480	314	400	262	2.4	ACS800-304-0450-7	D3
571	700	924	495	458	670	439	560	367	3.8	ACS800-704-0640-7	D4
816	1000	1400	707	655	960	629	800	524	5	ACS800-704-0910-7	D4
1143	1400	1848	990	917	1340	877	1120	733	7.6	ACS800-704-1370-7	2xD4
1518	1860	2604	1315	1218	1790	1172	1490	976	10	ACS800-704-1810-7	2xD4
2278	2790	3906	1972	1827	2685	1758	2230	1460	15	ACS800-704-2720-7	3xD4
3037	3720	5208	2630	2436	3580	2344	2980	1951	20	ACS800-704-3630-7	4xD4
3796	4650	6510	3287	3045	4475	2930	3720	2436	25	ACS800-704-4540-7	5xD4

6-pulse regenerative thyristor supply unit (TSU)											
981	1202	1947	850	792	1137	749	881	580	6.3	ACS800-404-0850-5	2xB4 + choke
1617	1980	3208	1400	1304	1872	1233	1450	955	10.2	ACS800-404-1400-5	2xB4 + choke
2449	3000	4860	2120	1976	2838	1869	2240	1478	16.5	ACS800-404-2120-5	2xB5 + choke
2858	3500	5670	2475	2305	3310	2180	2618	1724	20.8	ACS800-404-2600-5	2xB5 + choke

12-pulse diode supply unit (DSU)											
571	700	924	495	458	670	439	560	367	3.8	ACS800-704-0640-7	D4
816	1000	1400	707	655	960	629	800	524	5	ACS800-704-0910-7	D4
1143	1400	1848	990	917	1340	877	1120	733	7.6	ACS800-704-1370-7	2xD4
1518	1860	2604	1315	1218	1790	1172	1490	976	10	ACS800-704-1810-7	2xD4
2278	2790	3906	1972	1827	2685	1758	2230	1460	15	ACS800-704-2720-7	3xD4
3037	3720	5208	2630	2436	3580	2344	2980	1951	20	ACS800-704-3630-7	4xD4
3796	4650	6510	3287	3045	4475	2930	3720	2436	25	ACS800-704-4540-7	5xD4

Dimensions

Frame size	Height mm	Width mm	Depth mm	Weight kg	Noise level dB(A)	Air flow m³/h
IGBT supply unit (ISU)						
R2i	401	165	193	9	62	35
R3i	466	173	232	12	62	69
R4i	525	240	252	15	62	103
R5i	673	265	276	23	65	250
R7i ¹⁾	963	170	408	38	72 ⁴⁾	800
R8i	1397	245	596	130	74 ⁴⁾	1280
2xR8i	1397	245 ²⁾	596	260	76 ⁴⁾	2560
3xR8i	1397	245 ²⁾	596	390	78 ⁴⁾	3840
4xR8i	1397	245 ²⁾	596	520	78 ⁴⁾	5120
6xR8i	1397	245 ²⁾	596	780	80 ⁴⁾	7680
LCL-filter for IGBT supply unit (ISU)						
RLCL-01-5	850	173	137	15	69	-
RLCL-02-5	850	173	137	15	69	-
RLCL-03-5	850	173	137	20	69	-
RLCL-11-5	920	265	169.5	40	69	-
RLCL-12-5	920	265	169.5	50	69	-
ALCL-0X-X	810	304	292	72	-	480
ALCL-1X-X	1397	240	499	180	-	400
ALCL-2X-X	1397	240	573	305	-	1280

Frame size	Height mm	Width mm	Depth mm	Weight kg	Noise level dB(A)	Air flow m³/h
6-pulse diode supply unit (DSU)						
D3	1480	234	400 ³⁾	130	65	720
D4	1480	234	400 ³⁾	180	65	720
2XD4	1480	234 ²⁾	400 ³⁾	360	67	1440
3XD4	1480	234 ²⁾	400 ³⁾	540	68	2160
4XD4	1480	234 ²⁾	400 ³⁾	720	69	2880
5XD4	1480	234 ²⁾	400 ³⁾	900	70	3600
6-pulse regenerative thyristor supply unit (TSU)						
2XB4	1808	340 ²⁾	430	110 ²⁾	72 ⁵⁾	2000
2XB5	1808	420 ²⁾	430	150 ²⁾	75 ⁵⁾	3400
DC chokes for 6-pulse regenerative supply unit (TSU)						
choke B4	771	348	449	110	-	600
choke B5	991	348	449	150	-	700
12-pulse diode supply unit (DSU)						
D4	1480	234	400 ³⁾	180	65	720
2XD4	1480	234 ²⁾	400 ³⁾	360	67	1440
3XD4	1480	234 ²⁾	400 ³⁾	540	68	2160
4XD4	1480	234 ²⁾	400 ³⁾	720	69	2880
5XD4	1480	234 ²⁾	400 ³⁾	900	70	3600

¹⁾ Dimensions do not include cooling fan.

²⁾ Single module only.

³⁾ Cable connections need additional space (about 200 mm) behind the module.

⁴⁾ Supply modules + filters.

⁵⁾ Supply modules + choke.