INOMAX

AC DRIVE

CATALOG

SHENZHEN INOMAX TECHNOLOGY CO.LTD

www.inomaxtechnology.com

E Frame

E2-CON

E2

E8

ACS880 series Wall-mounted single drives [Industrial / Servo Drives]

Un = 400V (340-500V) The rated power is valid at the rated voltage of 400V (1.5-450-1400kW)

Nominal ratings			Light-overload		Heavy-duty		Noise	Heat	Air flow	Model Number	Resistor	Frame size (mm)
P_N kW	I_N A	I_{max} A	I_{LD} A	P_{LD} kW	I_{HD} A	P_{HD} kW	dBA	W	m^3/h			
1.5	3.3	4.1	3.1	**1.5**	2.4	**0.75**	45	50	25	**ACS880-E22-03A3-3B**	**>=72Ω**	E2 (W100 H300 D230)
2.2	5.6	6.8	5.3	**2.2**	4.0	**1.5**	45	76	30	**ACS880-E23-05A6-3B**	**>=72Ω**	
4.0	9.5	12	8.8	**4.0**	5.6	**2.2**	45	97	40	**ACS880-E24-09A8-3B**	**>=72Ω**	
5.5	12.9	16	12	**5.5**	9.4	**4.0**	45	175	50	**ACS880-E25-12A6-3B**	**>=72Ω**	
7.5	17	21	17	**7.5**	13	**5.5**	45	210	55	**ACS880-E26-017A-3B**	**>=39Ω**	
11	25	30	24	**11**	17	**7.5**	45	325	60	**ACS880-E27-025A-3B**	**>=39Ω**	
15	32	42	32	**15**	25	**11**	57	500	100	**ACS880-E32-032A-3B**	**>=20Ω**	E3 (W145 H400 D270)
18.5	38	54	37	**18.5**	32	**15**	57	550	125	**ACS880-E33-038A-3B**	**>=20Ω**	
22	45	64	45	**22**	38	**18.5**	57	660	145	**ACS880-E34-045A-3B**	**>=20Ω**	
30	61	76	58	**30**	45	**22**	59	890	200	**ACS880-E42-061A-3 /B**[1]	**>=10Ω**	E4 (W250 H400 D300)
37	72	104	71	**37**	61	**30**	59	1114	250	**ACS880-E43-072A-3 /B**[1]	**>=8Ω**	
45	87	122	85	**45**	75	**37**	59	1140	290	**ACS880-E44-087A-3 /B**[1]	**>=8Ω**	
55	115	148	110	**55**	91	**45**	59	1200	320	**ACS880-E52-105A-3 /B**[1]	**>=5.2Ω**	E5 (W290 H680 D350)
75	145	179	143	**75**	112	**55**	59	1440	340	**ACS880-E53-145A-3 /B**[1]	**>=5.2Ω**	
90	182	247	176	**90**	150	**75**	67	1940	400	**ACS880-E54-169A-3 /B**[1]	**>=3.3Ω**	
110	226	287	212	**110**	184	**90**	67	2200	550	**ACS880-E62-206A-3 /B**[1]	**>=2.3Ω**	E6
132	246	350	241	**132**	225	**110**	67	3300	650	**ACS880-E63-246A-3 /B**[1]	**>=2.3Ω**	
160	293	418	283	**160**	266	**132**	68	3850	680	**ACS880-E72-293A-3 /B**[1]	**>=1.7Ω**	E7 (W425 H900 D390)
200	363	498	355	**200**	293	**160**	68	4100	700	**ACS880-E73-363A-3 /B**[1]	**>=1.7Ω**	
250	487	545	450	**250**	387	**200**	68	4600	720	**ACS880-E74-487A-3 /B**[1]	**>=1.7Ω**	
280	546	628	526	**280**	480	**250**	68	5100	950	**ACS880-E83-546A-3 /B**[1]	**>=1.7Ω**	E8 (W380 H1660 D535)
315	624	718	615	**315**	546	**280**	68	5782	1100	**ACS880-E84-624A-3 /B**[1]	**>=1.7Ω**	
400	760	874	727	**355**	568	**315**	68	6252	1200	**ACS880-E85-760A-3 /B**[1]	**>=1.7Ω**	
450	865	1080	865	**450**	675	**355**	68	7860	1350	**ACS880-E86-865A-3 /B**[1]	**>=1.7Ω**	

UN = 690 V (range 525 to 750 V). The power ratings are valid at nominal voltage 690 V

Nominal ratings			Light-overload		Heavy-duty		Noise	Heat	Air flow	Model Number	Resistor	Frame size (mm)
P_N kW	I_N A	I_{max} A	I_{LD} A	P_{LD} kW	I_{HD} A	P_{HD} kW	dBA	W	m^3/h			
45	49	71	47	**45**	42	**37**	59	1120	290	**ACS880-E50-049A-6 /B**[1]	**>=22Ω**	E5 (W290 H680 D350)
55	61	104	58	**55**	49	**45**	59	1295	320	**ACS880-E51-061A-6 /B**[1]	**>=13Ω**	
75	84	124	80	**75**	61	**55**	59	1440	340	**ACS880-E52-080A-6 /B**[1]	**>=13Ω**	
90	98	168	93	**90**	84	**75**	67	1940	400	**ACS880-E53-098A-6 /B**[1]	**>=8Ω**	
110	119	198	113	**110**	98	**90**	67	2310	550	**ACS880-E54-119A-6 /B**[1]	**>=8Ω**	
132	142	220	135	**132**	119	**110**	67	3300	650	**ACS880-E63-142A-6 /B**[1]	**>=6Ω**	
160	174	274	165	**160**	142	**132**	68	3922	680	**ACS880-E72-175A-6 /B**[1]	**>=4Ω**	E7 (W425 H900 D390)
200	210	384	200	**200**	174	**160**	68	4822	700	**ACS880-E73-210A-6 /B**[1]	**>=4Ω**	
250	271	411	257	**250**	210	**200**	68	6000	720	**ACS880-E74-271A-6 /B**[1]	**>=4Ω**	
280	300	450	290	**280**	265	**250**	68	5800	950	**ACS880-E82-295A-6 /B**[1]	**>=2.7Ω**	E8 (W380 H1660 D535)
315	330	480	320	**315**	295	**280**	68	6120	1100	**ACS880-E83-325A-6 /B**[1]	**>=2.7Ω**	
355	370	520	360	**355**	325	**315**	68	6800	1200	**ACS880-E84-360A-6 /B**[1]	**>=2.7Ω**	
400	430	520	420	**400**	415	**355**	68	7000	1350	**ACS880-E85-420A-6 /B**[1]	**>=2.7Ω**	
450	470	655	455	**450**	455	**400**	72	7200	1300	**ACS880-E86-450A-6 /B**[1]	**>=2.7Ω**	
500	522	655	505	**500**	505	**450**	72	8500	1350	**ACS880-E87-505A-6 /B**[1]	**>=2.7Ω**	
560	590	800	570	**560**	515	**500**[2]	72	9500	1450	**ACS880-E88-571A-6 /B**[1]	**>=2.7Ω**	

P_N: Typical motor power in Nominal load use. In: Rated current aviailable continuously without overload at 40 ° C.
I_{max}: Max.current , Available for 10 seconds at start,then as long as allowed by drive temperature .
I_{LD}: Continuous current allowing110% I_{LD} for 1 minute every 5 minutes at 40 ° C,for typical motor power in light-overload use.
I_{HD}: Continuous current allowing150% I_{HD} for 1 minute every 5 minutes at 40 ° C,for typical motor power in heavy-duty use.
The ratings apply at 40 ° C ambient temperature.At higher temperatures(Up to 55 ° C) the derating is 1%/1° C. 1).150% overload.

ACS 880E frequency drive terminal wiring diagram

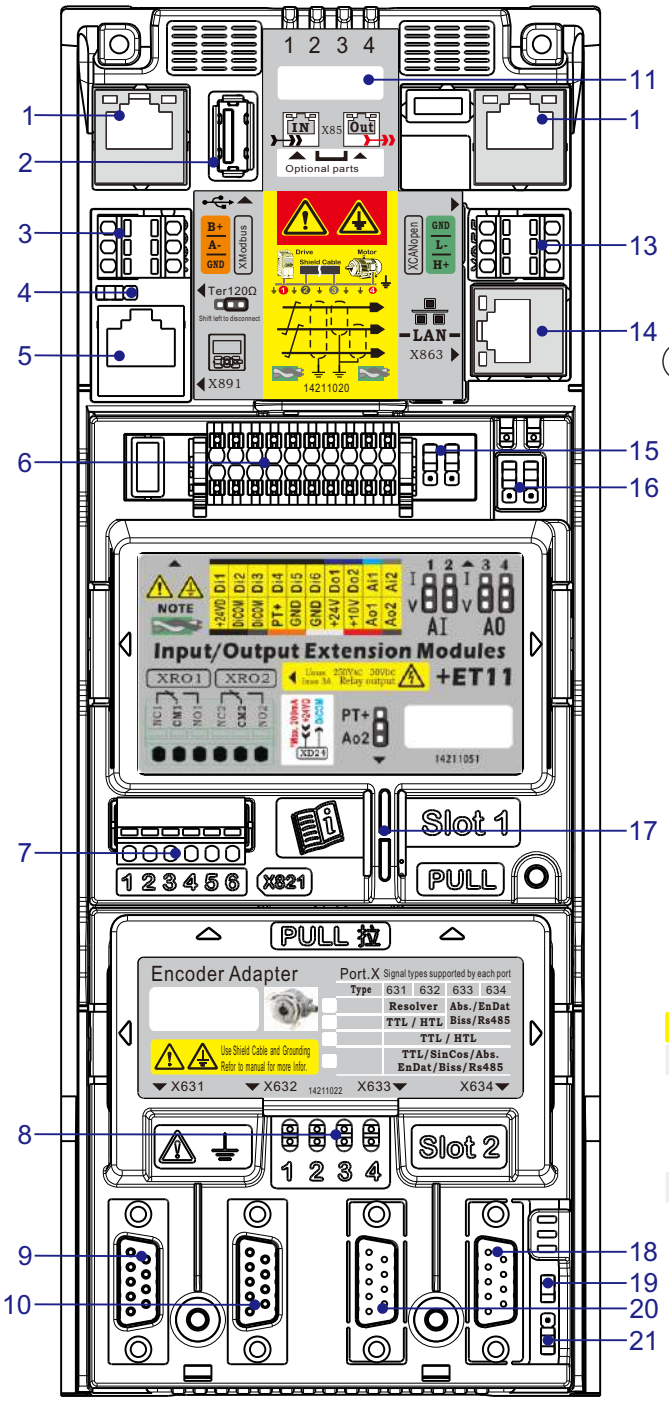
www.inomaxtechnology.com

Frame

E

ACS880

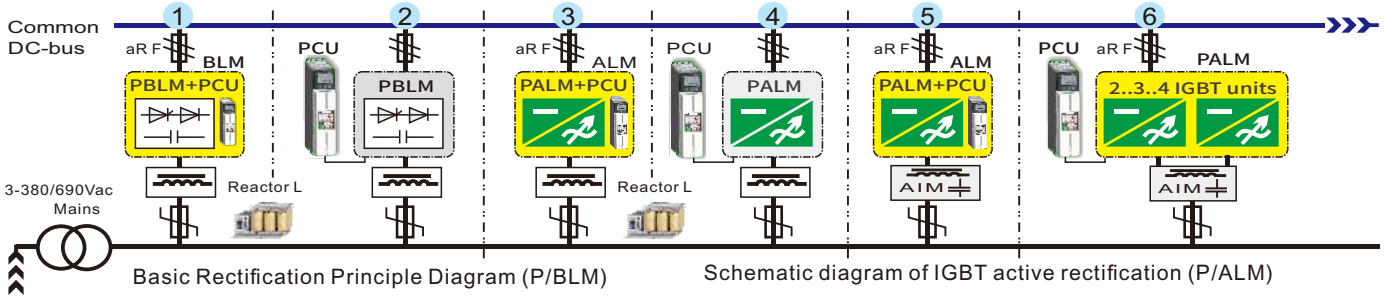
The E series drive control unit is an upgraded control unit from the B series. Each option is modularized, supports a variety of standard interfaces, and interfaces with mainstream high-speed fieldbus options. The following figure shows the basic functions and basic attention of each interface based on the standard universal For more information, please refer to the manual or contact the relevant representative to further clarify your needs.



1	X85 IN	Optional Field Bus Ports for EtherCAT、ProfiNET Type labled at Flag 11
2		USB to U drive for Configture storage,FAT32 format
3	Xmodbus communication terminal	
	B+	Modbus ports :EIA-485
	A+	High speed fieldbus,Protocol configuration reference manual
	GND	The wiring should with GND wire, A / B twisted pair, and shielded to enhance electromagnetic anti-interference
4	Ter120Ω	Modbus/CAN.Ter. resistor, shift left to disconnect
5	X891	Panel port, Max.30m extension by cable and External EMC
6	XD24V Ports Auxiliary voltage output, digital input interlock	
	+24VD	DI reference supply ,+24V DC 0-200mA,or for external sensors
	DiCOM	Digital signal input/output ground
	XPT Ports for temperature sensor in from motor / choke or others	
	PT+	Sensor as KTY84、PT100、PT1000、PTC etc, configuration
	GND	parameter and cable with twisted&Shield&Strong insulation
	XPWOut port as power output from Drive	
	GND	Signal ground
	+24V	Only external low-power sensors, +24V DC Max.400mA
	+10V	Analog reference power supply, R=1k~10kohm
	XAO Ports Analog outputs	
	AO1	Type with 0-20mA RL<500 ohm,Voltage:0-10V DC
	AO2	It is used to configure the speed, torque, current and other . Easily interfered ,be with twisted pair, shielding, grounding, etc.
	XAI Ports Analog inputs	
	AI1	Current type: -20~+20mA,0~20mA,Rin=100kohm
	AI2	Voltage type: 0~+10V, -10~+10V, Rin=500ohm
	XDI Digital and high-speed pulse input , with rich and flexible functions	
	DI1	(As default) = DI1:Stop (0)/Start (1), DI2: Forward (0)/Reverse (1)
	DI2	or for other function by parameters.
	DI3	DI3/4/5/6, Define its functions by parameters and pointers
	DI4	DI1/2/3:ON/OFF input only.
	DI5	DI4/5/6:ON/OFF or Plus input,f<=100kHz,or HTL encoder A、
	DI6	B、Z signal input, by paramete to NPN/PNP、encoder、etc.
	all DI terminals support internal power 24V ,support the voltage input of external power (-20%)24-48vdc(+10%)and (-10%)24-48vac(+10%)	
	XDO Digital and high-speed pulse output , with rich and flexible functions	
	DO1	ON/OFF output(I<0.5A),or Pulse output(f<=120kHz)
	DO2	by paramete to switch NPN/PNP、pluse output、etc.
7	XRO Ports of Relay output	
	NC1	Running, or others by parameters
	CM1	RO1 250V AC / 30V DC
	NO1	3A
	NC2	Faulted, or others by parameters
	CM2	RO2 250V AC / 30V DC 3A
	NO2	
8	1 2 3 4	LED indicator to Encoder of prot.631/632/633/634
9	631	Resolver/TTL/HTL/SinCos/Abs/EnDat/Biss/Rs485
10	632	
11	Lable	EtherCAT or ProfiNET type showon
13	XCANopen Ports	
	GND	CANopen ports :EIA-CAN Terminal R ON/OFF by parameter
	L-	Protocol configuration refer to manual The wiring should with
	H+	GND wire, A / B twisted pair, and shielded to enhance electromagnetic anti-interference, 1939 type in coming soon
14	LAN X863	EtherNET/IP,TCP/IP,Modbus-TCP,Remote debugging, multi-Drive linkage control to Host computer hub
15	AI	Ai Jumper, move up current type, move down voltage type
16	AO	AO Jumper, move up current type, move down voltage type
17	PT+ /AO2	PT+/Ao2 jumper , move up by PT+, down by Ao2 function
18	634	Resolver/TTL/HTL/SinCos/Abs/EnDat/Biss/Rs485
20	633	
19	J5/PE/J6	GND/DICOM to PE connection switch cap,Depending on the level of EMC interference and the required switching
21		

INOMAX

Nominal ratings					Light-overload		Heavy-duty		Noise	Heat	Air flow	Water flow	Model No. More model No or design please double check before order [P/B]=PBLM/BLM	Chopper adaptation minimum resistance value/AC side distribution reactance inductance (Ω/mH)	Auxiliary power DC=24V AC=1-220V/A	Frame size (mm)
P_{NDC} kW	S_N kW	I_{NAC} A	I_{NDC} A	I_{maxDC} A	I_{LDDC} A	P_{LD} kW	I_{HDDC} A	P_{HD} kW	dBA	kW	m^3/h	L/min.				
BLM【AC-DC】Basic rectification power supply module, 6-pulse thyristor rectification (Note: For 12-pulse rectification applications, please select an even number of modules to connect in parallel)																
【FAN cooling type】 3phase input Un= 400V (380–415V)， related power is valid when voltage at 400V																
55	58	88	108	151	126	65	84	45	59	0.6	320		ACS880-R45-105A-3B+[P/B]	8Ω/~0.45	24V1.5A	R4 [W=100H500D320]
110	118	176	215	305	246	125	165	90	61	1.2	400		ACS880-R56-206A-3B+[P/B]	4Ω/~0.26	24V2A	R5 [W=200H500D320]
200	212	320	390	546	425	215	312	160	62	2.1	650		ACS880-R64-363A-3B+[P/B]	2Ω/~0.15	24V3A	R6 [W=300H500D320]
400	426	640	780	1093	835	430	693	355	68	4.2	950		ACS880-R85-760A-3+BLM	--/~0.051	220V2A	R8 (W240H977D600)
630	674	1010	1230	1721	1260	650	976	500	68	6.4	1200		ACS880-R88-1140A-3+BLM	--/~0.035	220V2A	
【Fan cooling type】 3phase input Un= 690V (660–690V)， related power is valid when voltage at 690V																
800	835	705	860	1204	800	790	602	575	68	4.0	900		ACS880-R89-721A-6+BLM	--/~0.071	220V2A	R8 (W240H977D600)
1000	1065	881	1075	1504	998	950	719	687	68	5.5	1050		ACS880-R8A-900A-6+BLM	--/~0.061	220V2A	
1200	1265	1075	1245	1805	1156	1100	898	858	68	6.8	1260		ACS880-R8B-1160A-6+BLM	--/~0.051	220V2A	
【Liquid cooling type】 3phase input Un= 690V (660–690V)， related power valid when voltage at 690V																
400	565	430	520	725	550	545	425	400	58	2.3		13	ACS880-L85-420A-6+BLM	--/~0.12	24V3A	L8 [W200H1000D535]
800	835	705	860	1204	800	790	660	600	58	4.5		14	ACS880-L89-721A-6+BLM	--/~0.071	24V3A	
1000	1065	881	1075	1504	1035	980	745	720	58	5.2		16	ACS880-L8A-900A-6+BLM	--/~0.061	24V3A	
1200	1265	1075	1245	1805	1282	1250	1230	1200	58	7.8		18	ACS880-L8B-1160A-6+BLM	--/~0.051	24V3A	
1600	1704	1409	1719	2407	1764	1720	1470	1433	58	10.6		24	ACS880-L8C-1540A-6+BLM	--/~0.04	24V3A	
AFE [AC-DC] IGBT active rectification power supply module combination,AFE=AIM+ALM																
【FAN cooling type】 3phase input Un= 400V (380–415V)， related power is valid when voltage at 400V																
22	22	33	41	57	39	22	33	18.5	58	0.9	150		ACS880-R41-045A-3+AIM+ALM		24V1.5A	R4+external L
37	38	56	69	96	66	37	57	30	59	1.6	240		ACS880-R43-072A-3+AIM+ALM		24V2A	
55	56	84	102	143	98	53	82	45	61	2.3	320		ACS880-R45-105A-3+AIM+ALM		24V2A	
110	112	167	204	285	195	105	164	90	62	4.0	400		ACS880-R55-206A-3+AIM+ALM		24V3A	R5+R5A
132	133	203	245	345	234	126	205	110	63	4.5	650		ACS880-R63-246A-3+AIM+ALM		24V3A	R6+R6A
200	202	304	371	519	355	191	297	160	63	5.8	760		ACS880-R73-363A-3+AIM+ALM		220V2A	R7+R7A
250	252	380	463	649	442	238	371	200	65	6.8	950		ACS880-R74-487A-3+AIM+ALM		220V2A	
355	358	539	658	921	627	338	527	285	67	8.9	1100		ACS880-R85-650A-3+AIM+ALM		220V2A	R8+R8A
450	454	684	834	1168	795	430	668	360	68	11	1200		ACS880-R86-865A-3+AIM+ALM		220V2A	
630	636	957	1168	1635	1113	600	935	505	70	14	1700		ACS880-2R84-1140A-3+AIM+PALM+PCU		220V4A	2xR8+LC8
800	808	1216	1483	2076	1413	762	1187	640	71	18	2100		ACS880-2R86-1480A-3+AIM+PALM+PCU		220V4A	
1200	1212	1823	2225	3114	2119	1143	1800	960	72	23	3100		ACS880-3R86-2210A-3+AIM+PALM+PCU		220V6A	3xR8+LC8
1800	1818	2735	3337	4672	3178	1715	2670	1440	72	37	4500		ACS880-4R87-3450A-3+AIM+PALM+PCU		220V8A	4xR8+2xLC8
【Fan cooling type】 3phase input Un= 690V (660–690V)， related power is valid when voltage at 690V																
250	252	209	255	357	243	238	204	200	65	6	950		ACS880-R74-271A-6+AIM+ALM		220V2A	R7+R7A
355	358	297	362	507	345	338	190	284	68	7.8	1100		ACS880-R85-420A-6+AIM+ALM		220V2A	R8+R8A
500	505	418	510	715	486	476	408	400	68	10	1200		ACS880-R87-505A-6+AIM+ALM		220V2A	
800	808	669	817	1143	778	760	653	640	70	17	1700		ACS880-2R84-721A-6+AIM+PALM+PCU		220V4A	2xR8+LC8
1000	1010	837	1021	1429	972	952	817	800	71	20	2100		ACS880-2R86-900A-6+AIM+PALM+PCU		220V4A	
1400	1414	1172	1429	2001	1361	1333	1140	1120	72	24	3000		ACS880-3R86-1540A-6+AIM+PALM+PCU		220V6A	3xR8+LC8
1600	1616	1339	1634	2573	1750	1715	1470	1440	72	35	4300		ACS880-4R87-1740A-6+AIM+PALM+PCU		220V8A	4xR8+LC8
【Liquid cooling type】 3phase input Un= 690V (660–690V)， related power valid when voltage at 690V																
560	565	527	643	900	613	600	515	504	58	12		24	ACS880-L88-571A-6+AIM+ALM		24V3A	L8+LLC8
800	808	669	817	1143	778	762	653	640	58	15		27	ACS880-L89-721A-6+AIM+ALM		24V3A	
1000	1010	837	1021	1429	972	952	817	800	58	16.5		30	ACS880-L8A-900A-6+AIM+ALM		24V3A	
1200	1211	1004	1225	1715	1167	1143	980	960	58	20		42	ACS880-L8B-1160A-6+AIM+ALM		24V3A	
1600	1616	1339	1634	2573	1361	1333	1143	1120	59	30		60	ACS880-2L89-1540A-6+AIM+PALM+PCU		24V5A	2xL8+LLC8
2000	2018	1674	2042	2860	1950	1950	1634	1600	59	33		70	ACS880-2L8B-2300A-6+AIM+PALM+PCU		24V5A	
2800	2827	2343	2859	4002	2723	2667	2287	2240	60	57		110	ACS880-3L8A-2860A-6+AIM+PALM+PCU		24V8A	3xL8+2xLLC8
4000	4039	3347	4084	5717	3890	3810	3267	3200	60	75		140	ACS880-4L8B-4160A-6+AIM+PALM+PCU		24V11A	4xL8+2xLLC8



Basic Rectification Principle Diagram (P/BLM)

Schematic diagram of IGBT active rectification (P/ALM)

Single-axis motor inverter drive module selection list

R4 R5

R6

R7

R8

R9

4xR8 note 1)

Note 1:
Typical power module parallel structure
1. Inverter power module R8/9-PSMM
2. PCU = Parallel Control Unit
3.PL=parallel current sharing reactor

SMM【DC-AC】Single motor drive module, forced air cooling, ACS880, 380V, 690V

Three-phase input Un= 400V(380-500V) The rated power is valid when the voltage is 400V (55-132-560-2800kW) * According to the rated and peak load current selection

Nominal ratings			Light-overload		Heavy-duty		Noise	Heat	Air flow	Model Number	Auxiliary power DC=24V AC=220V Voltage/(W)	Frame size (mm)
P_N kW	I_N A	I_{max} A	I_{LD} A	P_{LD} kW	I_{HD} A	P_{HD} kW	dBA	W	m^3/h			
1.5	3.3	4.1	3.1	**1.5**	2.4	**0.75**	45	50	25	**ACS880-R40-03A3-3+SMM**	24V45W	R4 (W100 H500 D320)
2.2	5.6	6.8	5.3	**2.2**	4.0	**1.5**	45	76	30	**ACS880-R41-05A6-3+SMM**	24V45W	
4.0	9.5	12	8.8	**4.0**	5.6	**2.2**	45	97	40	**ACS880-R42-09A8-3+SMM**	24V45W	
5.5	12.9	16	12	**5.5**	9.4	**4.0**	45	172	50	**ACS880-R43-12A6-3+SMM**	24V45W	
7.5	17	21	17	**7.5**	13	**5.5**	45	210	55	**ACS880-R44-017A-3+SMM**	24V45W	
11	25	30	24	**11**	17	**7.5**	45	325	60	**ACS880-R45-025A-3+SMM**	24V45W	
15	32	42	32	**15**	25	**11**	57	500	100	**ACS880-R46-032A-3+SMM**	24V45W	
18.5	38	54	37	**18.5**	32	**15**	57	550	125	**ACS880-R47-038A-3+SMM**	24V45W	
22	45	64	45	**22**	38	**18.5**	57	660	145	**ACS880-R48-045A-3+SMM**	24V45W	
30	61	76	58	**30**	45	**22**	59	890	200	**ACS880-R49-061A-3+SMM**	24V55W	
37	72	104	71	**37**	61	**30**	59	1114	250	**ACS880-R4A-072A-3+SMM**	24V55W	
45	87	122	85	**45**	75	**37**	59	1140	290	**ACS880-R4B-087A-3+SMM**	24V55W	
55	115	148	110	**55**	91	**45**	59	1200	320	**ACS880-R52-105A-3+SMM**	24V65W	R5 (W200 H500 D320)
75	145	179	143	**75**	112	**55**	59	1440	340	**ACS880-R53-145A-3+SMM**	24V65W	
90	182	247	176	**90**	150	**75**	67	1940	400	**ACS880-R54-169A-3+SMM**	24V65W	
110	226	287	212	**110**	184	**90**	67	2200	550	**ACS880-R55-206A-3+SMM**	24V75W	
132	246	350	241	**132**	225	**110**	67	3300	650	**ACS880-63-246A-3+SMM**	24V75W	R6(W300H500D320)
160	293	418	283	**160**	266	**132**	68	3850	680	**ACS880-R72-293A-3+P/SMM**	220V1A	R7 (W190 H1000 D600)
200	363	498	355	**200**	293	**160**	68	4100	700	**ACS880-R73-363A-3+P/SMM**	220V1A	
250	487	545	450	**250**	387	**200**	68	4600	720	**ACS880-R74-487A-3+P/SMM**	220V1A	
280	546	628	526	**280**	480	**250**	68	5100	950	**ACS880-R83-546A-3+P/SMM**	220V2A	R8 (W240 H1000* D600 -650)
315	624	718	615	**315**	546	**280**	68	5782	1100	**ACS880-R84-624A-3+P/SMM**	220V2A	
400	760	874	727	**355**	568	**315**	68	6252	1200	**ACS880-R85-760A-3+P/SMM**	220V2A	
450	865	1080	865	**450**	675	**355**	68	7860	1350	**ACS880-R86-865A-3+P/SMM**	220V2A	
560	1050	1265	1000	**560**	874	**450**	68	8625	1580	**ACS880-R87-950A-3+P/SMM**	220V2A	
630	1140	1482	1072	**630**	915	**500**	68	9430	3000	**ACS880-2R84-1140A-3+P/SMM**	220V3A	2R8
710	1250	1630	1200	**710**	1070	**560**	68	10560	3400	**ACS880-2R85-1250A-3+P/SMM**	220V3A	
800	1480	1930	1421	**800**	1170	**630**	72	14800	3800	**ACS880-2R86-1480A-3+P/SMM**	220V3A	
1000	1760	2120	1690	**900**	1316	**800**	74	17500	4200	**ACS880-2R87-1760A-3+P/SMM**	220V3A	
1200	2210	2880	2122	**1200**	1653	**900**	75	33700	5200	**ACS880-3R86-2210A-3+PSMM+PCU+PL**		3xR8
1400	2610	3140	2506	**1400**	1952	**1000**	76	35000	5200	**ACS880-3R87-2610A-3+PSMM+PCU+PL**		3xR8
1800	3450	4140	3312	**1800**	2581	**1400**	76	37000	6100	**ACS880-4R87-3450A-3+PSMM+PCU+PL**		4xR8
2400	4290	5150	4118	**2000**	3209	**1800**	77	46000	6200	**ACS880-3R95-4290A-3+PSMM+PCU+PL**		3xR9
2800	5130	6160	4925	**2400**	3837	**2000**	78	57000	7300	**ACS880-4R95-5130A-3+PSMM+PCU+PL**		4xR9

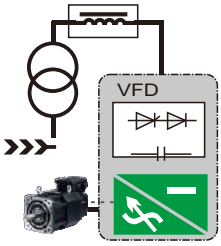
Three-phase input Un= 660V(525-690V) The rated power is valid when the voltage is 690V (45-132-630-4000kW)

45	49	71	47	**45**	42	**37**	59	1120	290	**ACS880-R51-049A-6+SMM**	24V65W	R5 (W200 H500 D320)
55	61	104	58	**55**	49	**45**	59	1295	320	**ACS880-R52-061A-6+SMM**	24V65W	
75	84	124	80	**75**	61	**55**	59	1440	340	**ACS880-R53-080A-6+SMM**	24V65W	
90	98	168	93	**90**	84	**75**	67	1940	400	**ACS880-R54-098A-6+SMM**	24V65W	
110	119	198	113	**110**	98	**90**	67	2310	550	**ACS880-R55-119A-6+SMM**	24V65W	
132	142	220	135	**132**	119	**110**	67	3300	650	**ACS880-R63-142A-6+SMM**	24V65W	
160	174	274	165	**160**	142	**132**	68	3922	680	**ACS880-R72-175A-6+SMM**	220V1A	R7 (W190 H900 D535)
200	210	384	200	**200**	174	**160**	68	4822	700	**ACS880-R73-210A-6+SMM**	220V1A	
250	271	411	257	**250**	210	**200**	68	6000	720	**ACS880-R74-271A-6+SMM**	220V1A	
280	300	450	290	**280**	265	**250**	68	5800	950	**ACS880-R82-295A-6+SMM**	220V2A	R8 (W240 H1000* D600 -650)
315	330	480	320	**315**	295	**280**	68	6120	1100	**ACS880-R83-325A-6+SMM**	220V2A	
355	370	520	360	**355**	325	**315**	68	6800	1200	**ACS880-R84-360A-6+SMM**	220V2A	
400	430	520	420	**400**	415	**355**	68	7000	1350	**ACS880-R85-420A-6+SMM**	220V2A	
450	470	655	455	**450**	455	**400**	72	7200	1300	**ACS880-R86-450A-6+SMM**	220V2A	
500	522	655	505	**500**	505	**450**	72	8500	1350	**ACS880-R87-505A-6+SMM**	220V2A	
560	590	800	570	**560**	515	**500** 2)	72	9500	1450	**ACS880-R88-571A-6+SMM**	220V2A	
800	800	1200	768	**710**	576	**560**	75	11500	1670	**ACS880-2R84-721A-6+SMM**	220V3A	2R8
1000	1030	1550	989	**900**	768	**710**	75	14200	1850	**ACS880-2R86-900A-6+SMM**	220V3A	
1100	1170	1760	1123	**1000**	989	**800**	75	16500	1960	**ACS880-2R88-1160A-6+SMM**	220V3A	
1400	1540	2310	1478	**1400**	1123	**1100**	76	19500	2150	**ACS880-3R87-1540A-6+PSMM+PCU+PL**		3xR8
1600	1740	2610	1670	**1600**	1478	**1200**	76	23400	2340	**ACS880-3R88-1740A-6+PSMM+PCU+PL**		3xR8
2000	2300	3450	2208	**2000**	1670	**1600**	77	32100	2870	**ACS880-4R88-2300A-6+PSMM+PCU+PL**		4xR8
2800	2860	4290	2746	**2400**	2208	**2000**	77	40800	3150	**ACS880-3R95-2860A-6+PSMM+PCU+PL**		3xR9
3200	3420	5130	3283	**3200**	2746	**2400**	77	48700	3850	**ACS880-3R95-3420A-6+PSMM+PCU+PL**		3xR9
4000	4100	6200	4000	**4000**	3283	**3200**	78	53600	4680	**ACS880-4R95-4160A-6+PSMM+PCU+PL**		4xR9

* Select according to the rated and peak load current

Main liquid cooling + auxiliary air cooling internal circulation type Basic Rectification (BLM) or Inverter (SMM/ALM)

Standard VFD



L8 L9【liquid cooling type】

Liquid-cooled wall-mounted drive module [Multi-drive/Industrial drive/Common DC bus]

VFD【AC-AC】Single motor drive module, liquid cooling, ACS880, 380V

Three-phase input Un= 400V(380-500V) The rated power is valid at the voltage of 400V (45-250kW) * According to the rated and peak load current selection

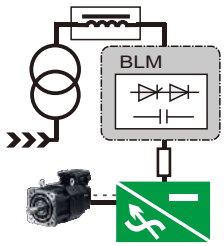
Nominal ratings			Light-overload		Heavy-duty		Noise Level	Heat Diss.	liquid cooling flow	Model Number	Built-in brake chopper adapts to the minimum resistance value (Ω)	the inductance of the reactor (mH) to the AC input side	Frame size (mm)
P_N kW	I_N A	I_{max} A	I_{LD} A	P_{LD} kW	I_{HD} A	P_{HD} kW	dBA	W	L/min.	[A]=ACS880			
55	115	148	110	**55**	91	**45**	59	1200	10	**[A]-L80-105A-3 /B**	**>=3.3Ω**	**~0.21**	L8 (W200 H1000 D530)
75	145	179	143	**75**	112	**55**	59	1440	11	**[A]-L80-145A-3 /B**	**>=3.3Ω**	**~0.18**	
90	182	247	176	**90**	150	**75**	67	1940	12	**[A]-L80-169A-3 /B**	**>=3.3Ω**	**~0.13**	
110	226	287	212	**110**	184	**90**	67	2200	13	**[A]-L80-206A-3 /B**	**>=3.3Ω**	**~0.11**	
132	246	350	241	**132**	225	**110**	67	3300	14	**[A]-L80-246A-3 /B**	**>=3.3Ω**	**~0.09**	
160	293	418	283	**160**	266	**132**	68	3850	15	**[A]-L80-293A-3 /B**	**>=3.3Ω**	**~0.08**	
200	363	498	355	**200**	293	**160**	68	4100	16	**[A]-L81-363A-3 /B**	**>=2.3Ω**	**~0.06**	
250	487	545	450	**250**	387	**200**	68	4600	16	**[A]-L82-487A-3 /B**	**>=2.3Ω**	**~0.06**	

VFD【AC-AC】Single motor drive module, liquid cooling, ACS880, 690V

Three-phase input Un= 660V(525-690V) The rated power is valid when the voltage is 690V (90-250-500W) * According to the rated and peak load current selection

Nominal ratings			Light-overload		Heavy-duty		Noise Level	Heat Diss.	liquid cooling flow	Model Number	Built-in brake chopper adapts to the minimum resistance value (Ω)	the inductance of the reactor (mH) to the AC input side	Frame size (mm)
P_N kW	I_N A	I_{max} A	I_{LD} A	P_{LD} kW	I_{HD} A	P_{HD} kW	dBA	W	L/min.	[A]=ACS880			
110	119	198	113	**110**	98	**90**	67	2310	550	**[A]-L80-119A-6 /B**	**>=8Ω**	**~0.26**	L8 (W200 H1000 D530)
132	142	220	135	**132**	119	**110**	67	3300	650	**[A]-L80-142A-6 /B**	**>=6Ω**	**~0.21**	
160	174	274	165	**160**	142	**132**	68	3922	680	**[A]-L80-175A-6 /B**	**>=6Ω**	**~0.18**	
200	210	384	200	**200**	174	**160**	68	4822	700	**[A]-L80-210A-6 /B**	**>=4Ω**	**~0.13**	
250	271	411	257	**250**	210	**200**	68	6000	720	**[A]-L81-271A-6 /B**	**>=4Ω**	**~0.11**	
280	300	450	290	**280**	265	**250**	68	5800	950	**[A]-L82-295A-6 /B**	**>=4Ω**	**~0.09**	
315	330	480	320	**315**	295	**280**	68	6120	1100	**[A]-L83-325A-6 /B**	**>=3.3Ω**	**~0.08**	
355	370	520	360	**355**	325	**315**	68	6800	1200	**[A]-L84-360A-6 /B**	**>=3.3Ω**	**~0.06**	
400	430	520	420	**400**	415	**355**	68	7000	1350	**[A]-L85-420A-6 /B**	**>=3.3Ω**	**~0.06**	
450	470	655	455	**450**	455	**400**	72	7200	1300	**[A]-L86-450A-6 /B**	**>=2.7Ω**	**~0.05**	
500	522	655	505	**500**	505	**450**	72	8500	1350	**[A]-L87-505A-6 /B**	**>=2.7Ω**	**~0.05**	

Liquid-cooling Basic Rectifier Module (BLM)



BLM [AC-DC] Basic rectifier power supply module, liquid cooling, ACS880, 690V

Three-phase input Un= 690V(660-690V) The rated power is valid when the voltage is 690V (55-132-800-4000kW) * According to the rated and peak load current selection

Nominal ratings			Light-overload		Heavy-duty		Noise Level	Heat Diss.	liquid cooling flow	Model Number	Built-in brake chopper adapts to the minimum resistance value (Ω)	the inductance of the reactor (mH) to the AC input side	Frame size (mm)
P_N kW	I_N A	I_{max} A	I_{LD} A	P_{LD} kW	I_{HD} A	P_{HD} kW	dBA	W	L/min.	[A]=ACS880			
400	**565**	430	550	**545**	425	**400**	58	/	13	**ACS880-L85-420A-6+BLM**	**--/~0.12**	**24V3A**	L8 (W200 H1000 D530)
800	**835**	705	800	**790**	660	**600**	58	/	14	**ACS880-L89-721A-6+BLM**	**--/~0.071**	**24V3A**	
1000	**1065**	881	1035	**980**	745	**720**	58	/	16	**ACS880-L8A-900A-6+BLM**	**--/~0.061**	**24V3A**	
1200	**1265**	1075	1282	**1250**	1230	**1200**	58	/	18	**ACS880-L8B-1160A-6+BLM**	**--/~0.051**	**24V3A**	
1600	**1704**	1409	1764	**1720**	1470	**1433**	58	/	24	**ACS880-L8C-1540A-6+BLM**	**--/~0.04**	**24V3A**	

* Higher power can be obtained by connecting this series of modules in parallel. For more liquid-cooled derivatives or low-power topological models, please consult relevant personnel

LX series water (liquid) cooling type driver can realize high-precision control of common induction motors and high-efficiency permanent magnet motors in the large power range under the condition of 380...690Vac power supply. The ultra-compact structure and high power density make it especially suitable for air-cooled and heat-sensitive applications with limited installation space and harsh environments, and has excellent performance in various extreme environmental conditions.

Compared with air cooling, the liquid-cooled drive can significantly reduce the load and floor space of the air-conditioning system in the electrical room, and achieve low noise and more stable operation. It can be widely used in stand-alone or large-scale common DC bus systems. When properly configured, optimum performance and significant energy cost savings can be achieved.

The standard VFD hardware structure driver must be equipped with a suitable L reactance filter to form an LC filter with the capacitance in the module. If it is in the form of AFE rectifier power supply, it is recommended to choose an air-cooled AIM + 1 liquid-cooled ALM, and an AIM with a liquid-cooled LCL filter is also available. At this time, functional modules such as LCL filter and power-on charging are also available. It will be supplied in component form to be assembled into a system in a cabinet.

For the L8X module of SMM/ALM with no basic rectification and only inverter topology, the DC side common mode filter is standard as default, which will make it easier for you to form a high-power multi-transmission topology. At the same time, L8X has a built-in fan cooling /liquid -cooled heat exchange module, which will effectively control the temperature of the circulating air in the electrical cabinet.

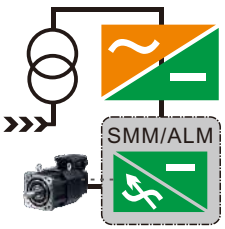
For liquid-cooled supply sources, air-cooled to liquid-cooled or liquid-cooled to liquid-cooled heat exchangers are optional, which can be considered in multiple dimensions such as project cost budget, installation site conditions, corrosion resistance level, and liquid-liquid medium conditions.

Liquid-cooled wall-mounted drive module [Multi-drive/Industrial drive/Common DC bus]

+SMM/+ALM【DC-AC】Single inverter drive module, liquid cooling, [ ]880, 380V/690V

Standard VFD

Power Module (BLM/AFE)



Three-phase input Un= 400V(380-415V) The rated power is valid when the voltage is 400V (55-132-560-4000kW) * According to the rated and peak load current selection

Nominal ratings			Light-overload		Heavy-duty		Noise Level	Heat Diss.	liquid cooling flow	Model Number [A]=ACS/PTi/PTo/DCC [B]=2/3/4	Auxiliary power (W) DC=24V AC=220V	Frame size (mm)
P_N kW	I_N A	I_{max} A	I_{LD} A	P_{LD} kW	I_{HD} A	P_{HD} kW	dBA	W	L/min.			
55	115	148	110	**55**	91	**45**	59	1200	10	**[A]880-LR52-105A-3+SMM**	**24V55W**	**R5** (W200 H500 D320)
75	145	179	143	**75**	112	**55**	59	1440	11	**[A]880-LR53-145A-3+SMM**	**24V55W**	
90	182	247	176	**90**	150	**75**	67	1940	12	**[A]880-LR54-169A-3+SMM**	**24V55W**	
110	226	287	212	**110**	184	**90**	67	2200	13	**[A]880-LR55-206A-3+SMM**	**24V65W**	
132	246	350	241	**132**	225	**110**	67	3300	14	**[A]880-L63-246A-3+SMM**	**24V65W**	**R6** [W300 H500 D320]
160	293	418	283	**160**	266	**132**	68	3850	15	**[A]880-LU38-293A-3+SMM**	**24V65W**	L8 (W200 H1000 D530)
200	363	498	355	**200**	293	**160**	68	4100	16	**[A]880-L81-363A-3+SMM**	/	
250	487	545	450	**250**	387	**200**	68	4600	16	**[A]880-L82-487A-3+SMM**	/	
280	546	628	526	**280**	480	**250**	68	5100	16	**[A]880-L83-546A-3+SMM**	/	
315	624	718	615	**315**	546	**280**	68	5782	20	**[A]880-L84-624A-3+SMM**	/	
400	760	874	727	**355**	568	**315**	68	6252	20	**[A]880-L85-760A-3+SMM**	/	
450	865	1080	865	**450**	675	**355**	68	7860	23	**[A]880-L86-865A-3+SMM**	/	
560	1050	1265	1000	**560**	874	**450**	68	8625	25	**[A]880-L87-950A-3+SMM**	/	
630	1140	1482	1072	**630**	915	**500**	68	9430	27	**[A]880-L88-1140A-3+SMM**	/	
710	1250	1630	1200	**710**	1070	**560**	68	10560	28	**[A]880-L89-1250A-3+SMM**	/	
800	1480	1930	1421	**800**	1170	**630**	72	14800	30	**[A]880-L8A-1480A-3+SMM**	/	

* For more liquid-cooled derivative or low-power topological models, please consult relevant personnel

Three-phase input Un= 660V(525-690V) The rated power is valid when the voltage is 690V (45-132-630-4000kW)

L8 L9【liquid cooling type】

Nominal ratings			Light-overload		Heavy-duty		Noise Level	Heat Diss.	liquid cooling flow	Model Number [A]=ACS/PTi/PTo/DCC [B]=2/3/4	Auxiliary power (W) DC=24V AC=220V	Frame size (mm)
P_N kW	I_N A	I_{max} A	I_{LD} A	P_{LD} kW	I_{HD} A	P_{HD} kW	dBA	W	L/min.			
45	49	71	47	**45**	42	**37**	59	1120	290	**[A]880-LR51-049A-6+[XXX]**	**24V65W**	**R5** (W200 H500 D320)
55	61	104	58	**55**	49	**45**	59	1295	320	**[A]880-LR52-061A-6+[XXX]**	**24V65W**	
75	84	124	80	**75**	61	**55**	59	1440	340	**[A]880-LR53-080A-6+[XXX]**	**24V65W**	
90	98	168	93	**90**	84	**75**	67	1940	400	**[A]880-LR54-098A-6+[XXX]**	**24V65W**	
110	119	198	113	**110**	98	**90**	67	2310	550	**[A]880-LR55-119A-6+[XXX]**	**24V65W**	
132	142	220	135	**132**	119	**110**	67	3300	650	**[A]880-LR56-142A-6+[XXX]**	**24V65W**	
160	174	274	165	**160**	142	**132**	68	3922	680	**[A]880-LR57-175A-6+[XXX]**	**24V65W**	
200	210	384	200	**200**	174	**160**	68	4822	700	**[A]880-LR58-210A-6+[XXX]**	**24V65W**	
250	271	411	257	**250**	210	**200**	68	6000	720	**[A]880-L81-271A-6+[XXX]**	**24V65W**	L8 (W200 H1000 D530)
280	300	450	290	**280**	265	**250**	68	5800	950	**[A]880-L82-295A-6+[XXX]**	/	
315	330	480	320	**315**	295	**280**	68	6120	1100	**[A]880-L83-325A-6+[XXX]**	/	
355	370	520	360	**355**	325	**315**	68	6800	1200	**[A]880-L84-360A-6+[XXX]**	/	
400	430	520	420	**400**	415	**355**	68	7000	1350	**[A]880-L85-420A-6+[XXX]**	/	
450	470	655	455	**450**	455	**400**	72	7200	1300	**[A]880-L86-450A-6+SMM**	/	
500	522	655	505	**500**	505	**450**	72	8500	1350	**[A]880-L87-505A-6+SMM**	/	
560	590	800	570	**560**	515	**500** [2)]	72	9500	1450	**[A]880-L88-571A-6+SMM**	/	
800	800	1200	768	**710**	576	**560**	75	11500	1670	**[A]880-L89-721A-6+SMM**	/	
1000	1030	1550	989	**900**	768	**710**	75	14200	1850	**[A]880-L8A-900A-6+SMM**	/	
1100	1170	1760	1123	**1000**	989	**800**	75	16500	1960	**[A]880-L8B-1160A-6+SMM**	/	
1400	1540	2310	1478	**1400**	1123	**1100**	76	19500	2150	**[A]880-2L8A-1540A-6+PSMM+PCU+PL**		
1600	1740	2610	1670	**1600**	1478	**1200**	76	23400	2340	**[A]880-3L88-1740A-6+PSMM+PCU+PL**		
2000	2300	3450	2208	**2000**	1670	**1600**	77	32100	2870	**[A]880-3L8A-2300A-6+PSMM+PCU+PL**		
2800	2860	4290	2746	**2400**	2208	**2000**	77	40800	3150	**[A]880-4L8A-2860A-6+PSMM+PCU+PL**		
3200	3420	5130	3283	**3200**	2746	**2400**	77	48700	3850	**[A]880-3L8B-3420A-6+PSMM+PCU+PL**		
4000	4100	6200	4000	**4000**	3283	**3200**	78	53600	4680	**[A]880-4L8B-4160A-6+PSMM+PCU+PL**		

* For more liquid-cooled derivative or low-power topological models, please consult relevant personnel

Note 1:
Typical power module parallel structure
1. Inverter power module R8/9-PSMM
2. PCU = Parallel Control Unit
3.PL=parallel current sharing reactor

INOMAX

Build your trust of technology from China

SHENZHEN INOMAX TECHNOLOGY CO.LTD

Address: Ideal Science and Technology Park,
Guanlan Avenue, Longhua District, Shenzhen,
Guangdong, China

Tel: 0086-75521002258
Fax: 0086-75521002258
E-mail:info@inomaxtechnology.com
Websit:www.inomaxtechnology.com