

# VEICHI

## AC800-Series

Engineering AC drive for Multi-motors



Stock code:688698

# About us

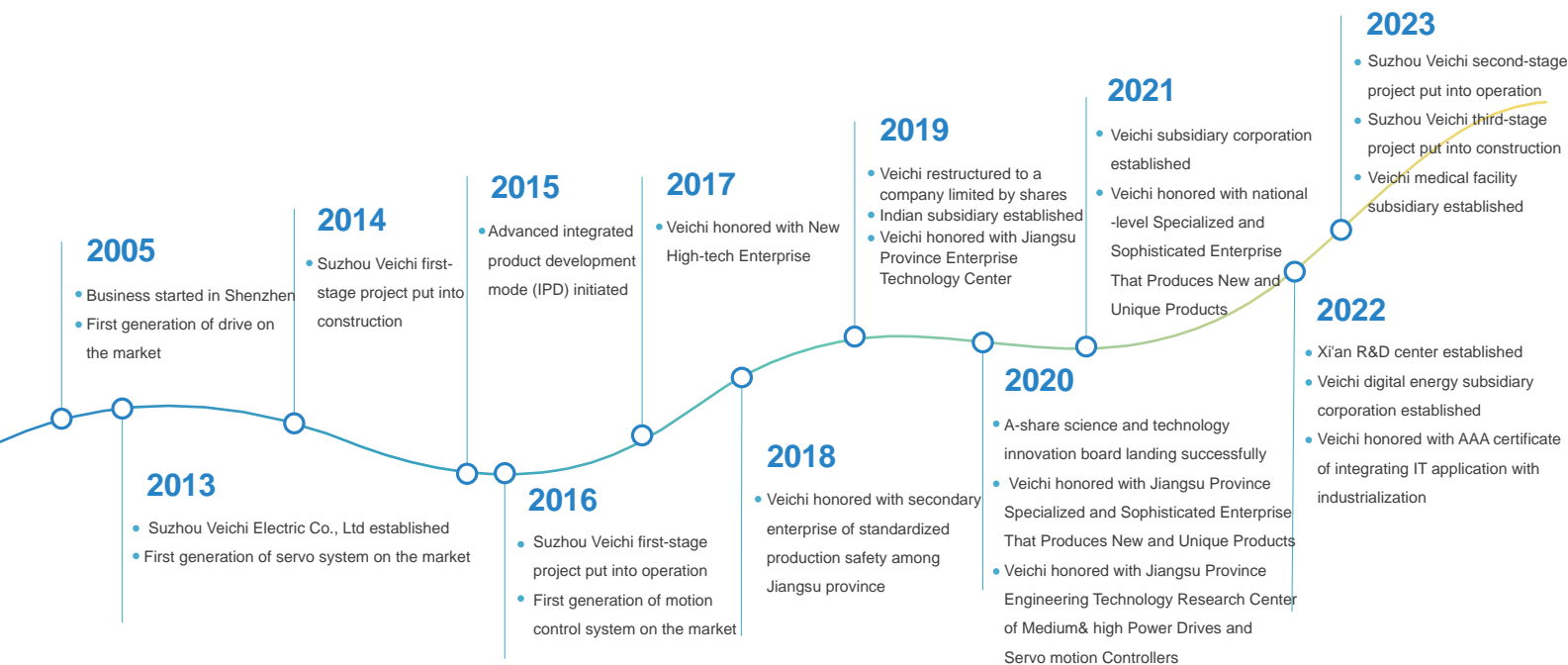


Veichi (stock code: 688698) has always committed to electric drive and industrial control since its foundation. As an all-round company engaged in R & D, manufacturing and sales on high-tech industrial automation products, Veichi has been identified with several honorary titles such as Jiangsu provincial-level Enterprise Technology Center, Jiangsu Private-own Technical Enterprise, Specialized and sophisticated enterprises that produce new and unique products, Jiangsu Engineering Research Center, Jiangsu New and High-tech Enterprise and Suzhou city-level Gazelle Company (High Growth Enterprise) and has obtained the highest level of enterprise credit. Through years of independent research and development, Veichi now has authorized patents totaling 148 by the end of 12, 2022, and among them 36 are for invention. Having established R & D center and manufacturing bases in Suzhou, Shenzhen and Xi'an, added with the wholly-owned subsidiary in India, Veichi now are dealing with customers from several nations and regions and has the full capability to provide safe, competitive and trustworthy products and services to customers from the larger world.

Veichi provides various products including drives from 0.4kW to 5,600kW, servo systems from 50W to 200kW, motion controllers, PLC and HMI, which are applied in all sorts of fields occasions like lifting, mining, rail traffic, machine tools, compressors, plastic equipment, photo-voltaic pumping, construction, robots/mechanical arms, printing and packaging, chemical fibers for textile use, metallurgy, municipal works, petrol work and chemical engineering.

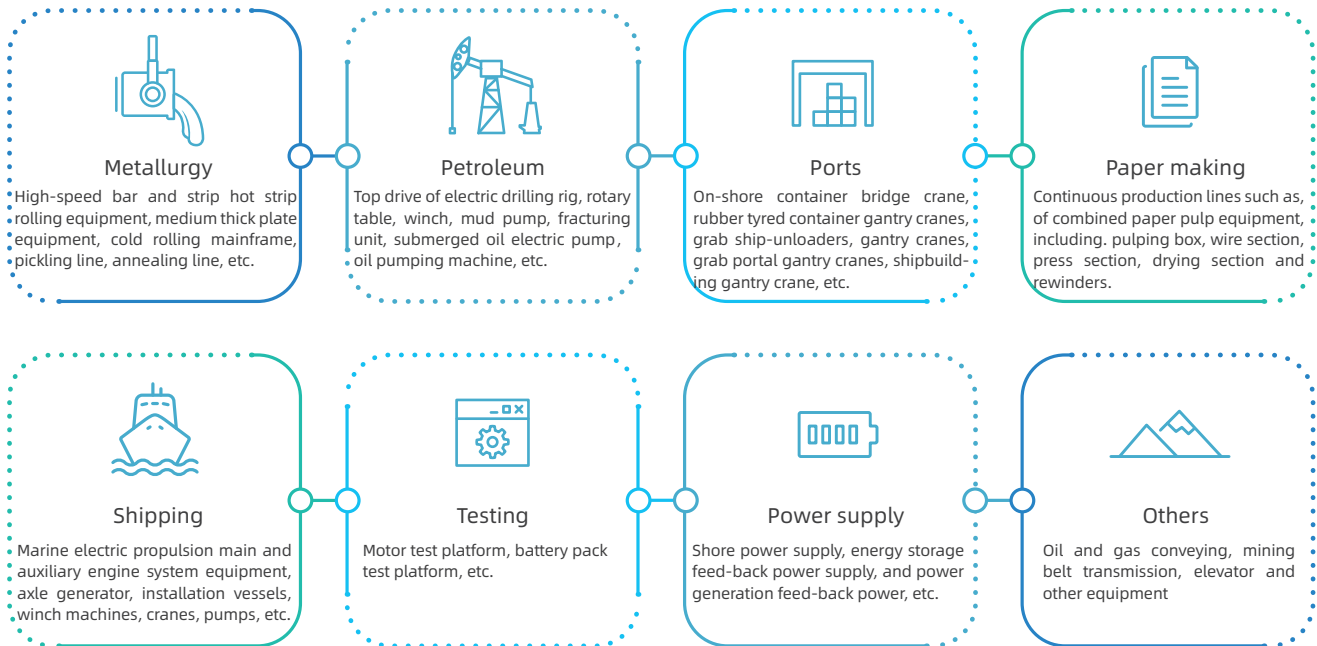
18 service stations and 182 contracted distributors cover 31 provinces on China mainland and Hong Kong, Macao and Taiwan regions, which guarantees a massive and efficient network for sales and services for our customers.

Veichi will continue to abide by the operation philosophy, that is, guided by market demand and driven by technical innovation, enlarge and enhance its core business like drives, servo systems, control systems and SIoT. And Veichi will always be hard at providing quality products and services for customers and further make contributions to the development of electric drives and industrial controls.

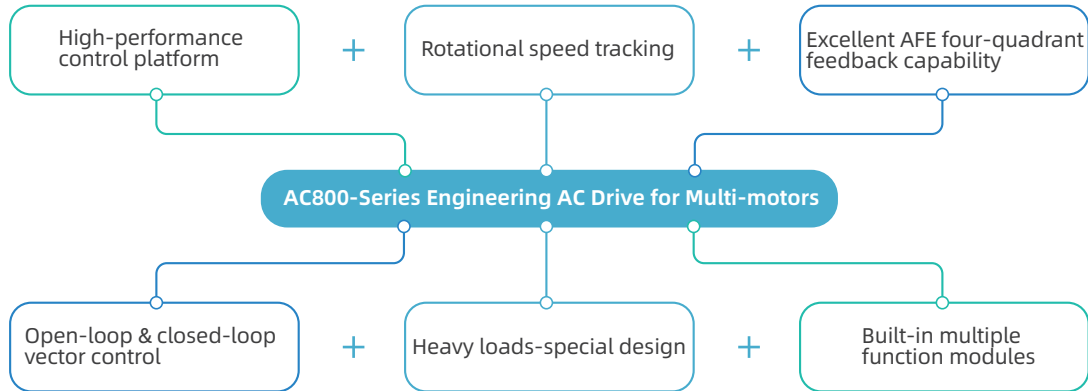


## Product Introduction

High-performance and high end AC800-Series Engineering AC drive for Multi-motors is manufactured by Veichi Electric on years of technical accumulation and in-depth market research and demand analysis. With excellent control performance, modular design, common DC bus solution, convenient and fast debugging tools, rich expansion interfaces, multiple fault handling and protections for safe and stable operations, it provides the drive core for energy saving and emission reduction for enterprises and meet the diversified requirements of industrial enterprises .



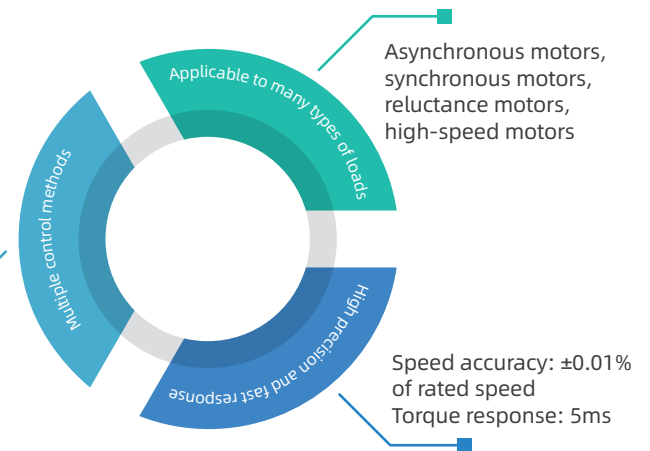
## Outstanding Control Performance



## High-performance control platform

ARM+FPGA dual-chip control architecture adopted and external signals such as IO, bus and encoder are all parallel processed by FPGA; that's why it can realize quick and precise loop control operation to ensure the excellent dynamic response of the drive system and control accuracy.

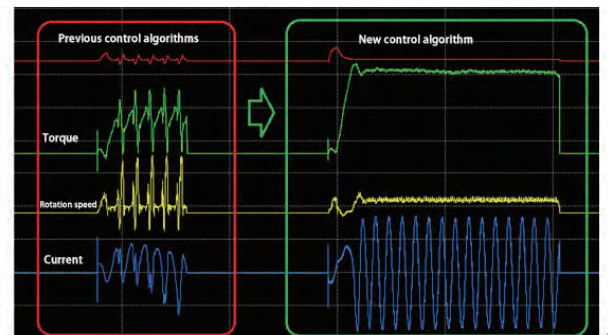
VF control, open-loop vectoring, closed-loop vectoring



## Open-loop & closed-loop vector control

The IPM motor output of 200% of rated torque at 0Hz under open-loop control is achieved by high-frequency signal injection

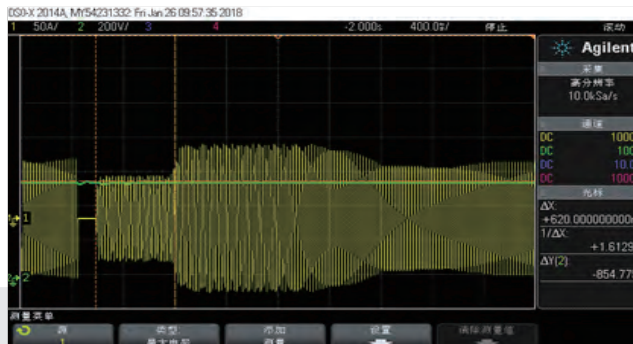
Comparison of heavy motor loads before and after high-frequency voltage injection >



### Rotational speed tracking

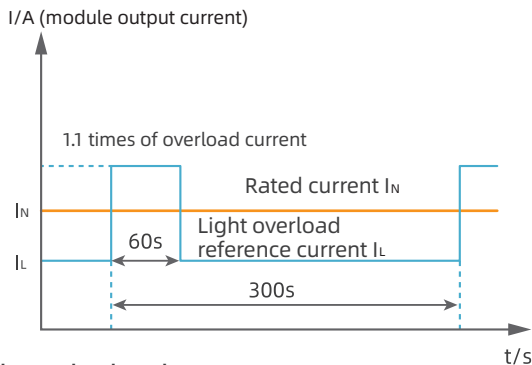
The remanence and phase can be estimated directly in regard to large inertia devices with large remanence voltage during shutdown and restart, thus they can go into rotation with pre-excitation and then accelerate.

Operation after speed tracking of large inertia load >

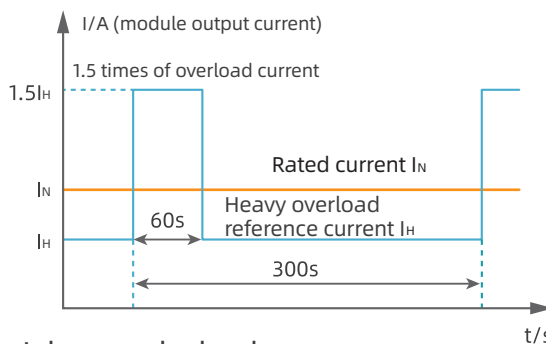


### Heavy loads-special design

A more reliable selection can be made according to the site working conditions based on the definition of light and heavy load rated current.



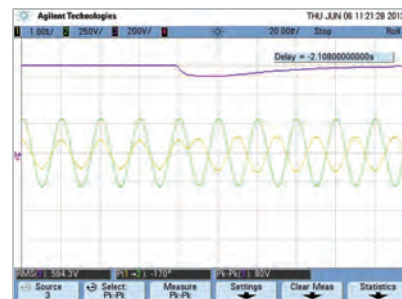
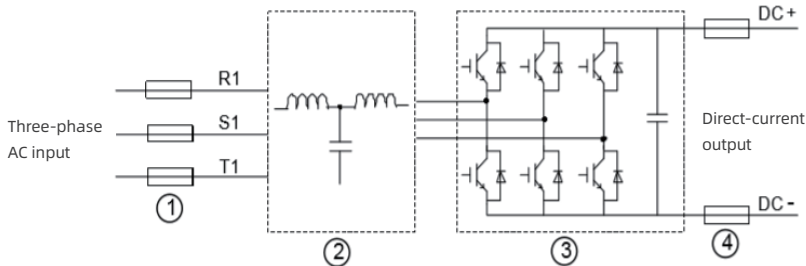
**In light overload mode:**  
Motor output current allowed to run 1 minute with 1.1 times overload every 5 minutes



**In heavy overload mode:**  
Motor output current allowed to run 1 minute with 1.5 times overload every 5 minutes

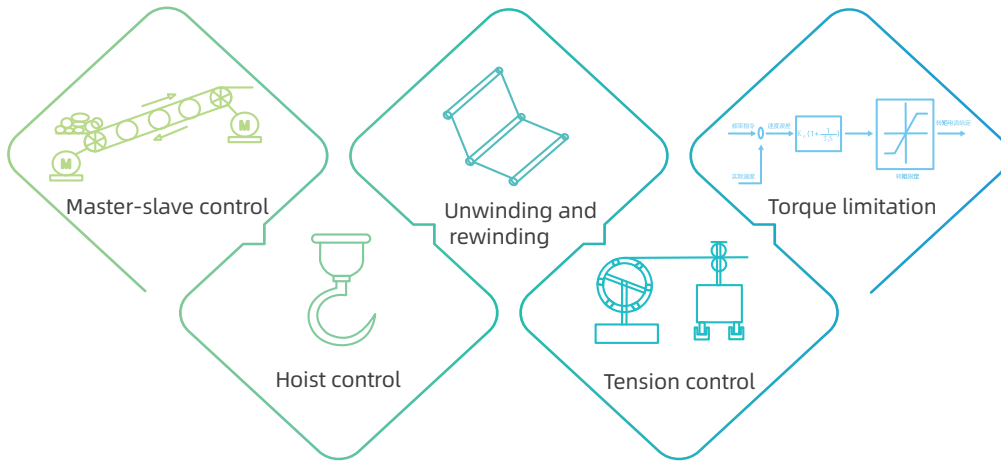
### Excellent four-quadrant return capability

The active rectifier four-quadrant AC drive is equipped with LCL PWM filtering unit, which can effectively reduce the harmonic content on the grid side.



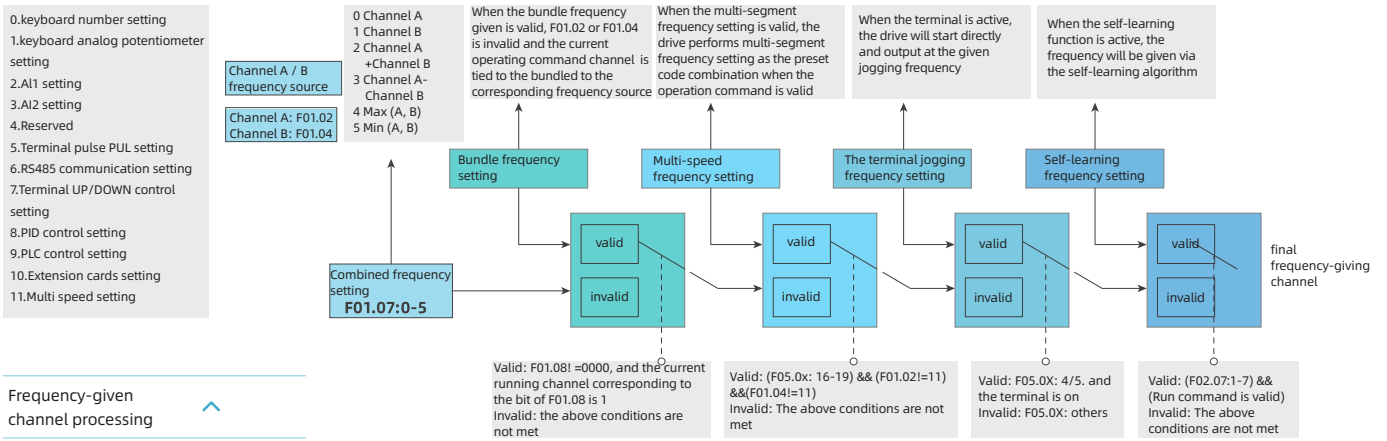
Active rectifier four-quadrant feedback current waveform

Built-in multi-functions modules

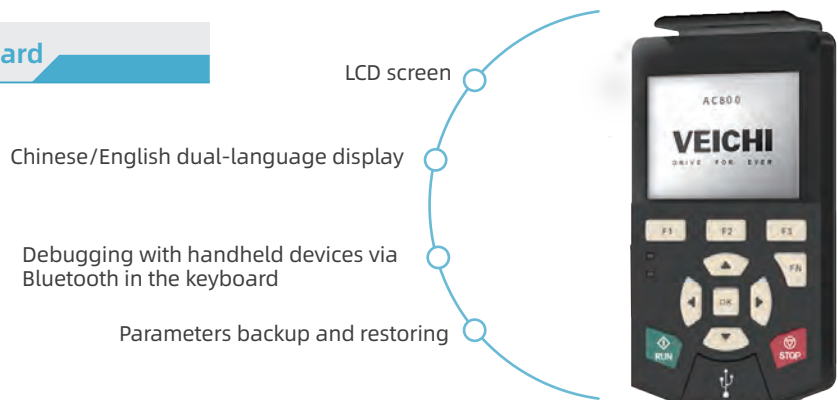


Easy Debugging Tools

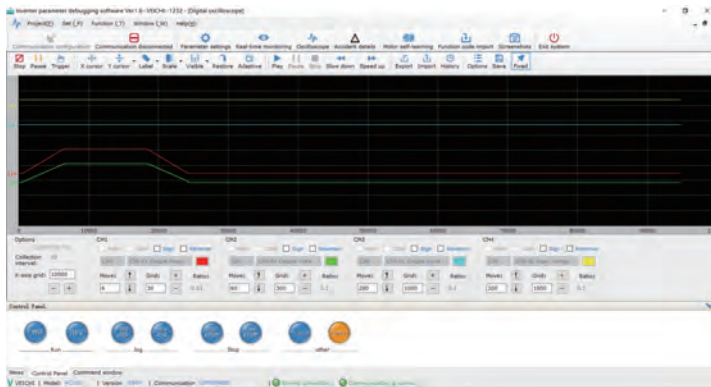
Control flow diagram for convenient on-site commissioning



Easy multi-functional keyboard



## Debugging upper computer adapted to the operating conditions



- VCSoft software is user-friendly and does not require any specialized knowledge about the system.
- Through graphical interface and menu-based operation, debugging engineers can complete configuration, parameter setting, fault detection, system maintenance and service of a complex system within a short period of time.
- Trend recording of up to 8 signals simplifies the diagnosis of AC drives and optimization.
- With access to the VCU controller's internal high-speed data logger, information of 50 observed objects will be completely restored before and after the fault to help debugging engineers efficiently locate faults and thus optimize the control preciseness of the production line.

## Modular Design With Common DC Busbar Solution

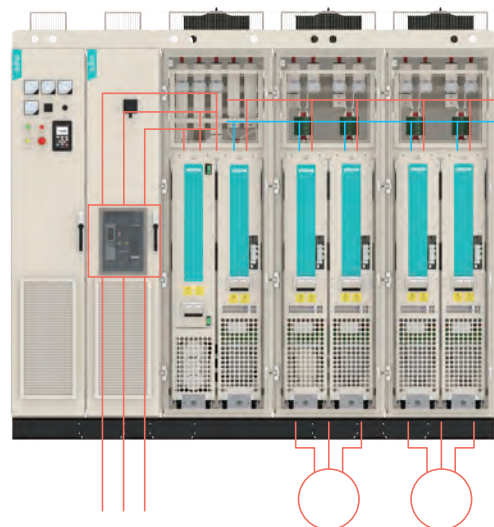
### Modular design

- Filter, rectifier, converter and brake are all independent and standard modules so customers can flexibly configure different modules according to power of the load motor.
- Book-like appearance design reduces the size of the completed cabinet (more than 30%) thus makes it easy to form a cabinet.
- Standard design is adopted to facilitate mass production and transport.



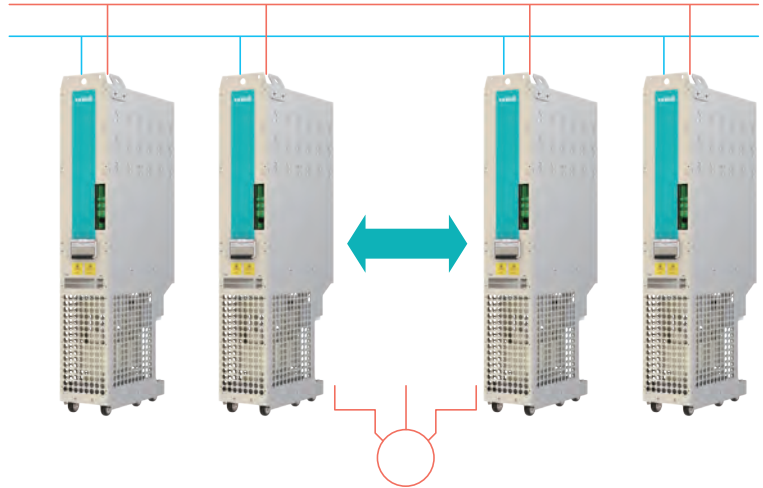
### Common DC bus

- Power generation energy and electric energy between converter modules can be exchanged through the common DC bus to saving energy about 5%-30% in the occasion of placing, winding and unwinding with loading.
- Rectifier module and brake module current are effectively reduced to simplify system capacity.
- Unified power supply by rectifier unit reduces the amount of main circuit switching devices and braking units.
- Difficulty and amount of wiring of the electronic control system is saved for lower cost.



Multi-module in parallel for maximum extended power 5600kW

Maximum for 400 V system with common DC bus and V8 unit in parallel reaches 2800kW, while 690V, 5600kW.



Ample expansion interfaces

Master controller VCU covers widely



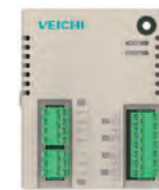

Standard with IO port

Plug and play expansion interfaces including:

- Encoder expansion module
- IO expansion module
- Bus expansion module
- Optical fiber expansion module

The VCU control module is the master controller for engineered drive products and covers all modules of AC800 series products.

A wide range of expansion modules supported

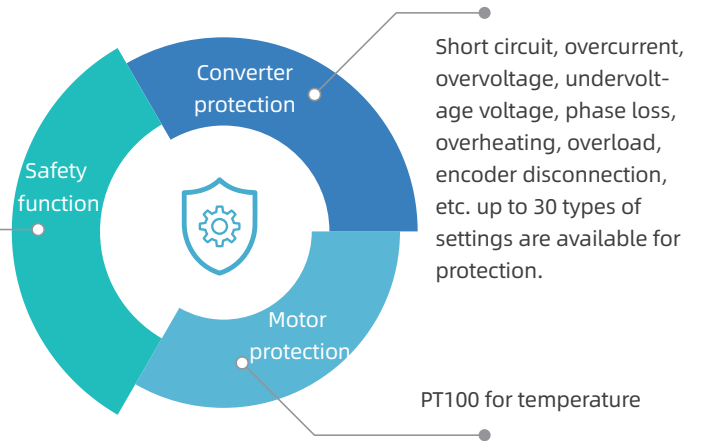
 <p><b>Encoder expansion modules</b>              TTL incremental type              HTL Incremental type              UWW Encoder              SIN/COS encoder              Resolver</p>	 <p><b>Bus Expansion Modules</b>              Modbus-TCP              CANopen              Profibus DP              Profinet              EtherNet</p>	 <p><b>IO expansion module</b>              2AI/2AO/2DIO/RO              4DIO/2RO              2AI/2AO</p>	 <p><b>Fiber optic extension module</b>              1 pair of 50M fiber expansion              2 pairs of 50M fiber extension              3 pairs of 50M fiber extension</p>
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## Multiple fault handling and protections

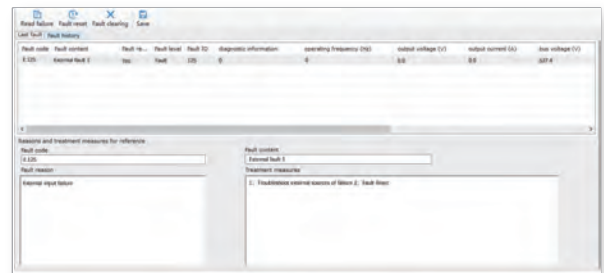
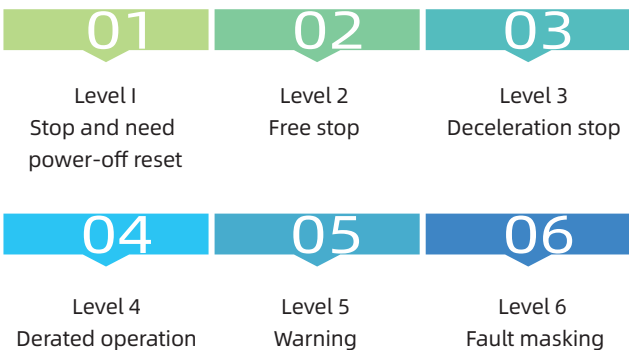
### A comprehensive mix of multiple protections

Optional with STO-Safe Torque Off function with which hardware circuit detection can block the IGBT drive pulse to disconnect the motor power and then prevent the motor from accidental start-up to ensure the safety of personnel and equipment.



### Fault classification and management

Fault situation based on years of combined experience classifies and manage faults and then reduce shutdown.



Complete fault information

### Black box



SD card as standard, can store specified waveform data for a specified period of time before and after multiple failures

### Module exit mechanism

When a module fails, it can be withdrawn online and the system runs at a reduced rate

**Quick module switch**

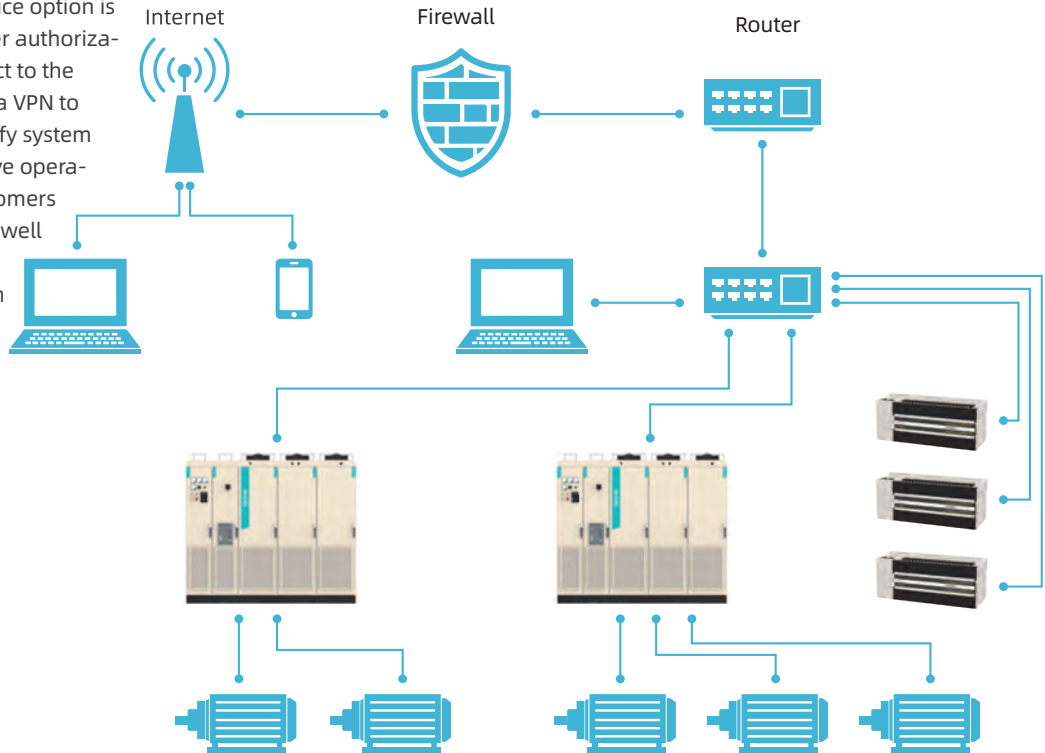
No need to replace the VCU control unit and reset parameter, faulty units can be repaired system can resume operation within 30min.

**Fuse protection**

Quick protection by fast fusion on the bus side when a unit fails.

**Remote diagnosis service**

Remote diagnostic service option is available. With customer authorization, technicians connect to the remote server on site via VPN to check fault records, verify system parameters, and observe operational data to help customers quickly locate faults, as well as optimize processes and improve production efficiency.



**Product Naming Rules**

**AC800-A10-T3-0299-XXXX**

**Product platform**  
AC800 Series AC Drive

- Product form**
- S55: Basic rectifier two-quadrant single drive cabinet
  - S65: Feedback rectifier four-quadrant single drive cabinet
  - S75: Active rectifier four-quadrant single drive cabinet
  - M75: Multi-computer drive cabinet
  - D10: Basic rectifier module
  - R10: Feed-back rectifier module
  - A10: Active rectifier module
  - Z80: DC conversion module
  - I20: Converter module
  - B40: Three-phase braking module

**Management number**  
XXXX: customized version

**Rated current**  
0299:0299 (no overload rated current A)

**Voltage Rating**  
T3: UN=400V(380-460V)  
T6: UN=690V (525-690V)




## Technical Parameters

Items		Specifications
Basic rectifier control characteristics	Input voltage 400V	380-460Vac, 690V: 525-690Vac, ±10%
	Input frequency range	47~63Hz
	Output voltage	400V: 540-650Vdc, 690V: 740-975Vdc
	Overload capacity	Light overload: 110% for 1 minute allowed every 5 minutes
		Heavy overload: 150% for 1 minute allowed every 5 minutes
	Work efficiency	≥99%
Power factor	≥0.95 (rated current)	
Active rectifier control characteristics	Input voltage	400V: 380-460Vac, 690V: 525-690Vac, ±10%
	Input frequency range	47~63Hz
	Output voltage	400V: 540 ~ 720Vdc, 690V: 740-975Vdc
	Overload capacity	Light overload: 110% for 1 minute allowed every 5 minutes
		Heavy overload: 150% for 1 minute allowed every 5 minutes
	Work efficiency	≥98%
Power factor	≥0.99 (tunable)	
Active rectifier control characteristics	Input voltage	400V: 380-460Vac, 690V: 525-690Vac, ±10%
	Input frequency range	47~63Hz
	Output voltage	400V: 540 ~ 720Vdc, 690V: 740-975Vdc
	Overload capacity	110% for 1 minute allowed every 5 minutes
		150% for 1 minute allowed every 5 minutes
	Work efficiency	≥97%
	Power factor	≥0.99 (tunable)
	Unbalanced degree	≤±3% rated line voltage
Total harmonic content THD	THDI<5%(rated power); THDU<5%,(Rsc>20)	
Carrier frequency	Default 3kHz	
Converter module control characteristics	Output frequency	0~300Hz
	Carrier frequency	400V: 2.2kW-90kW, 3.2kHz by default; 110kW-500kW, 2kHz by default
		690V:55kW-710kW, 1.5kHz by default, raised carrier frequency needs derating to use
	Control method	Frequency control (V/F), vector control with encoder (FVC), vector control without encoder (SVC)
	Speed ratio	V/F control: 1:50
		SVC control: 1:200
		FVC control: 1:1000
	Speed accuracy	SVC control: 5% rated speed difference for asynchronous motor, 0.2% rated speed for synchronous motor
		FVC control: ±0.01% rated speed
	Speed fluctuation	SVC control: ±0.2%
FVC control: ±0.1%		
Torque response	≤5ms	
Starting torque	SVC control: 0.5Hz/150% TN	
	FVC control: 0Hz/200% TN	
Functional characteristics	Protections	Short circuit, over current & voltage, undervoltage, phase loss, overheating, overload, encoder disconnection, etc.
	Standards	V/F & vector control, automatic voltage adjustment, multi-velocity frequency setting, forward and reverse control, differential rotation & torque compensation, PID control
Environmental requirements	Working temperature	-10~+40°C, derating when use it above 40°C
	Working humidity	Derate 1% for each 1°C temperature rise and the maximum ambient temperature is 50°C
	Working humidity	5%-95% RH, no condensation
	Protection degree	Module: IP00, Cabinet: IP20, IP42, IP54 customizable
	Noise	≤85dB(A)
Mounting height	Altitude below 1000m: 100% with full load (no derating)	
	Above 1000m altitude: derate 1% for every 100m elevation, maximum altitude is 4000m	
Mechanical data	Vibration performance	Standard: Test Fc in IEC 60068-2-6
		Sinusoidal vibration: 10Hz~57Hz, 0.075mm; 57Hz~150Hz, 10m/s
	Vibration performance	Standard: Test Ea in IEC 60068-2-27:2008
		Impact performance: Half sine pulse: 50m/s, time 30ms
Cooling method	Forced air cooling	

Product Categories





Power grid





Single motor-driven system

		
<b>Basic rectifier single motor-driven converter cabinet</b>	<b>Feedback rectifier single motor-driven converter cabinet</b>	<b>Active rectifier single motor-driven converter cabinet</b>
AC800-S55 series 400V: 630 - 2800kW 690V: 800 - 5600kW	AC800-S65 series 400V: 110- 2800kW 690V: 132-5600kW	AC800-S75 series 400V: 55- 2800kW 690V: 55- 5600kW

Power grid

Multi-motor-driven system

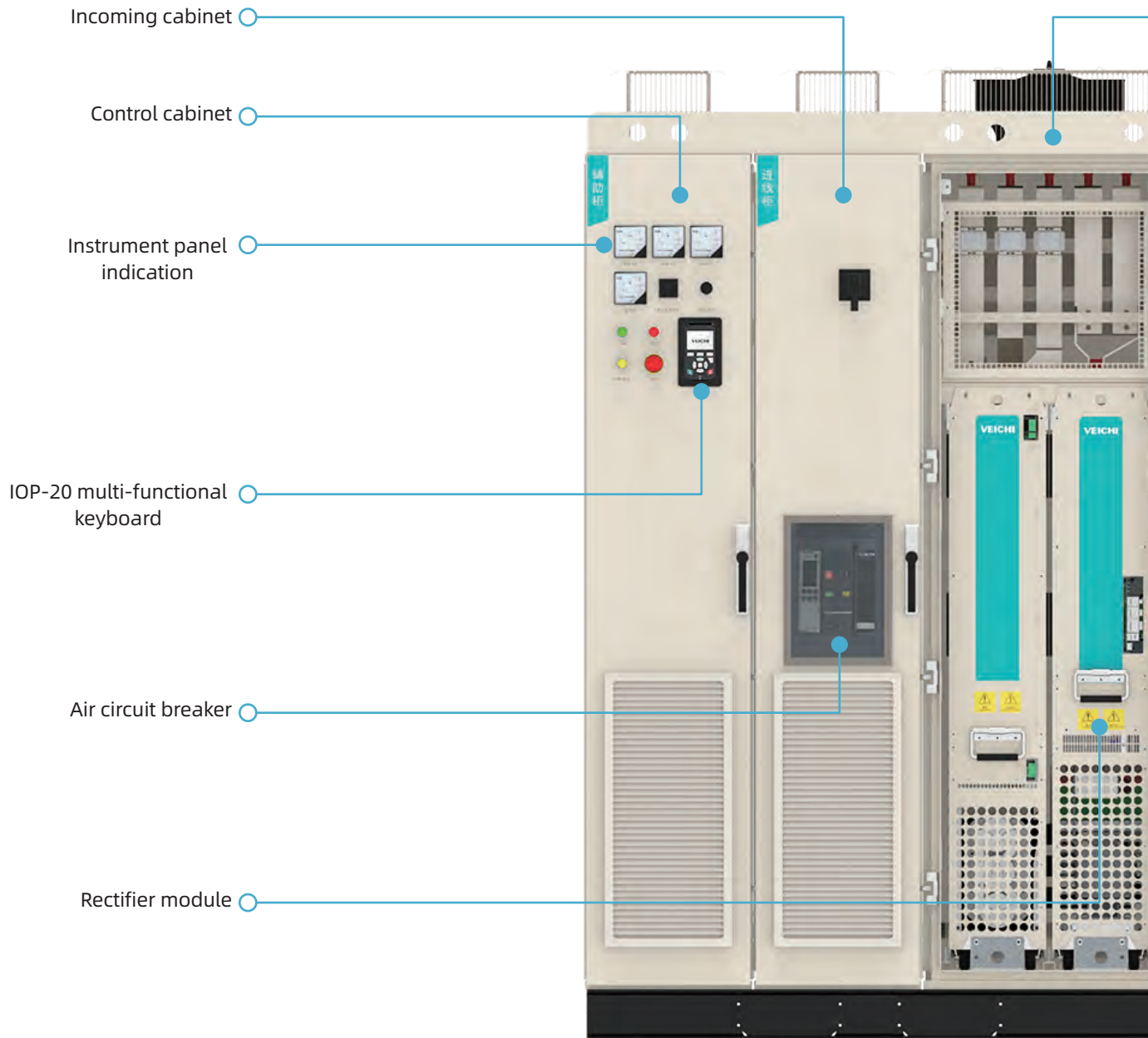
			
<b>Basic rectifier module</b>	<b>Feedback rectifier components</b>	<b>Active rectifier components</b>	<b>Converter module</b>
AC800-D10 series 400V: 475 - 648kW 690V: 650 - 929kW	AC800-R10 series 400V: 147 - 622kW 690V: 241- 1026kW	AC800-A10 series 400V: 64 - 560kW 690V: 117 - 639kW	AC800-I20 series 400V: 2.2 - 500kW 690V: 55 - 710kW

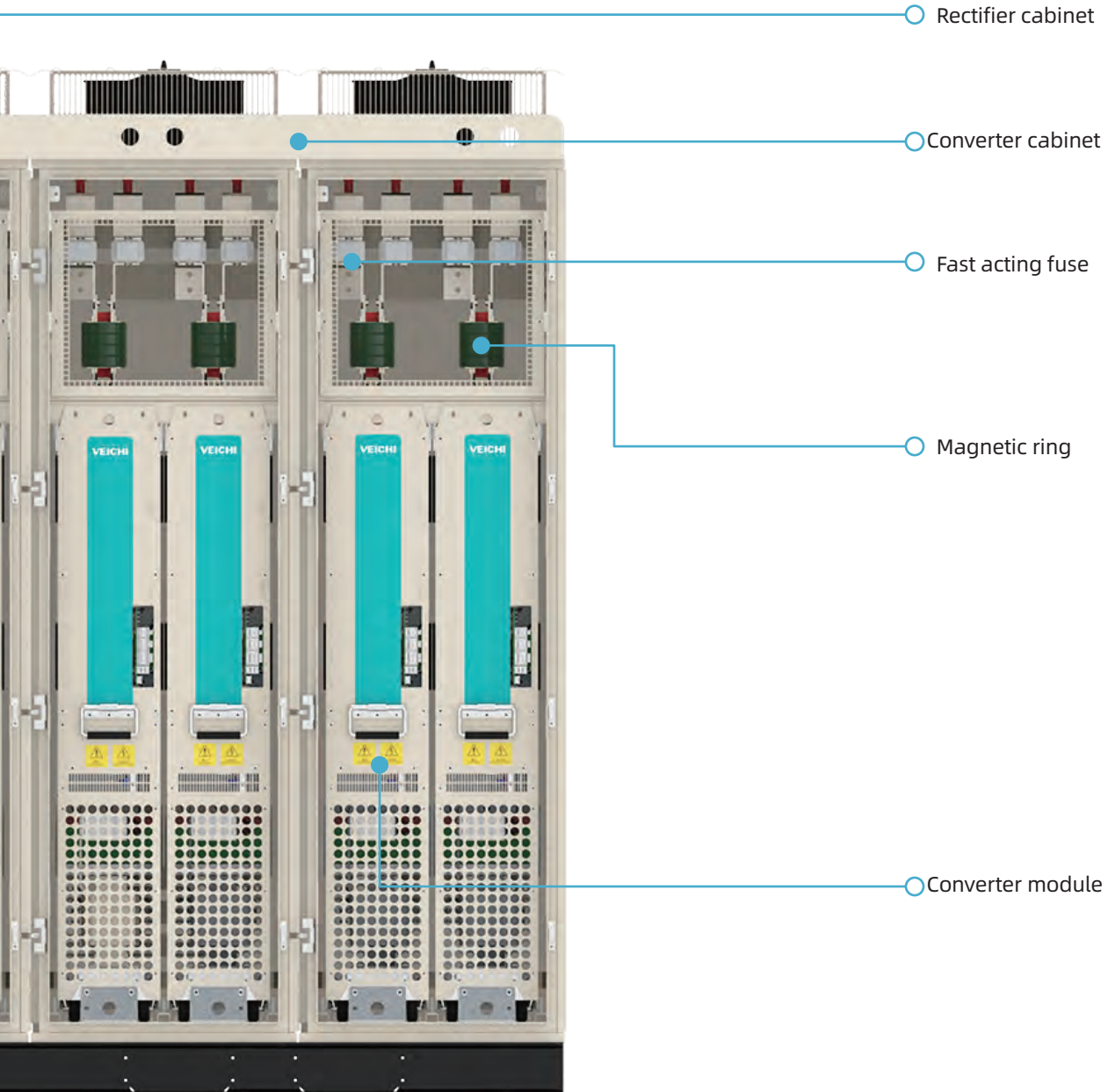
			
<b>Basic rectifier cabinet</b>	<b>Feedback rectifier cabinet</b>	<b>Active rectifier cabinet</b>	<b>Converter cabinet</b>
AC800-D15 series 400V: 432 - 3616kW 690V: 650 - 5183kW	AC800-R15 series 400V: 394 - 3472kW 690V: 685 - 5726kW	AC800-A15 series 400V: 355 - 3167kW 690V: 437 - 6069kW	AC800-I25 series 400V: 55 - 2800kW 690V: 55 - 5600kW

## Function Modules

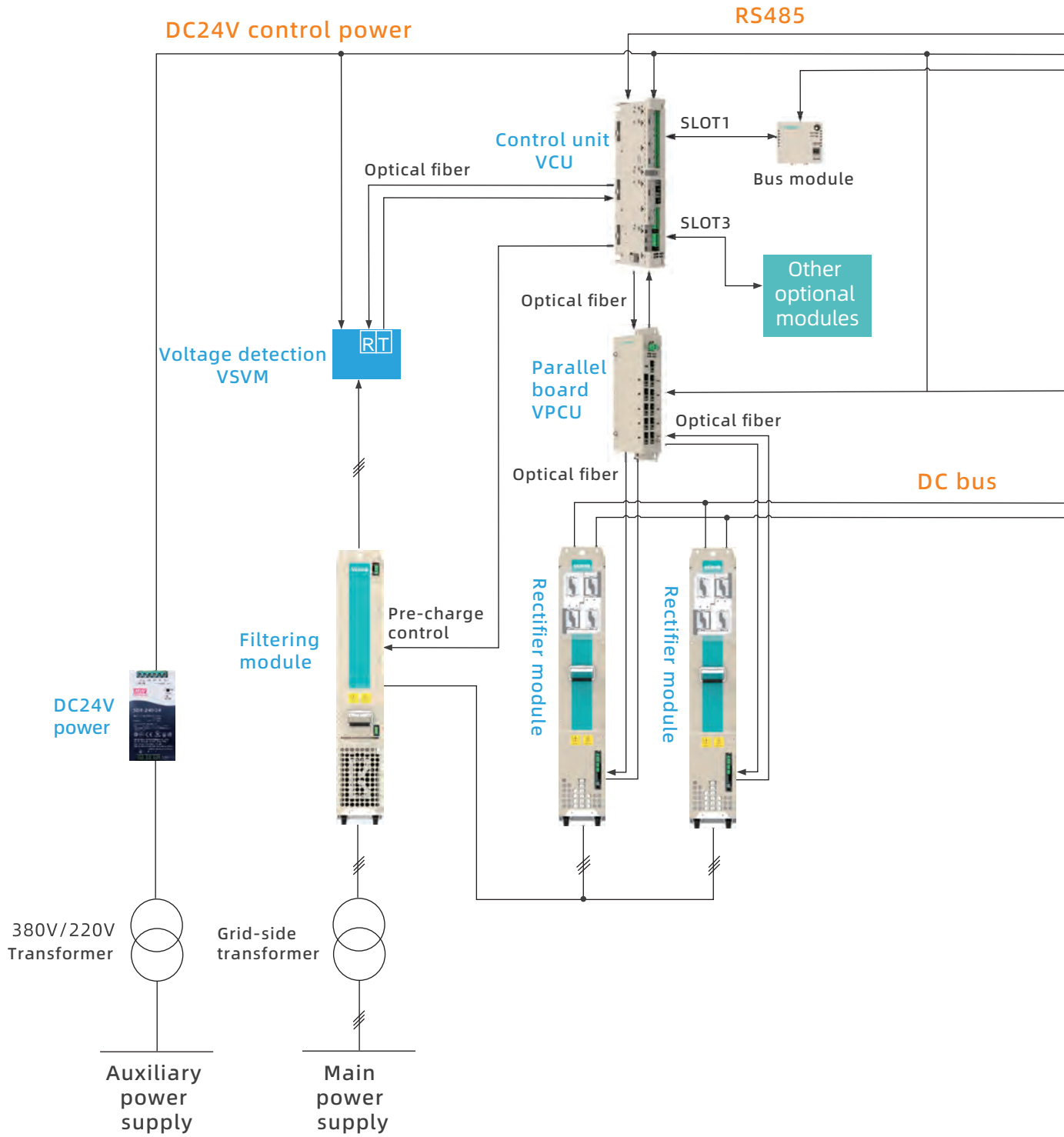
Module designation	Module model	Description	Interfaces to VCU
Control module	VCU-20	Converter control module	SLOT
	VCU-21	Converter control module (RS422)	SLOT
	VCU-10	Active rectifier control module	SLOT
	VCU-11	Active rectifier control module(RS422)	SLOT
	VCU-30	Feedback rectifier control module	SLOT
	VCU-40	Basic rectifier control module	SLOT
	VCU-50	Brake control module	SLOT
	VCU-60	DC/DC control module	SLOT
Smart operation keyboard	IOP-10	Without Bluetooth	RS485
	IOP-20	With Bluetooth	RS485
Encoder detection module	VPG-10	TTL incremental encoder signal detection	SLOT
	VPG-20	HTL incremental encoder signal detection	SLOT
	VPG-30	Sin/cos encoder signal detection	SLOT
	VPG-40	Resolver encoder signal detection	SLOT
	VPG-50	UVW encoder signal detection	SLOT
Fieldbus module	VCAN-10	CANopen bus module	SLOT
	VRTU-10	Modbus RTU bus module	SLOT
	VDP-10	Profibus-DP bus module	SLOT
Industrial Ethernet Module	VMBT-10	Modbus TCP industrial Ethernet module	SLOT
	VPN-10	Profinet IO industrial Ethernet module	SLOT
EtherNet module	VETH-10	EtherNet module	SLOT
Input and output module	VIO-10	2AI/2AO/2DIO/RO	SLOT
	VIO-20	4DIO/2RO	SLOT
	VIO-30	2AI/2AO	SLOT
Fiber optic expansion module	VOFE-10	1 pair of 50M fiber	SLOT
	VOFE-20	2 pair of 50M fiber	SLOT
	VOFE-30	3 pair of 50M fiber	SLOT
Parallel expansion module	VPCU-40	2-4 modules in parallel	Fiber
	VPCU-60	2-6 modules in parallel	Fiber
	VPCU-A0	2-10 modules in parallel	Fiber
Function extension module	VFE-10	1 SLOT expansion card	Fiber
Synchronous voltage detection module	VVO-10	AC voltage detection	Fiber
	VVO-20	DC voltage detection	Fiber
Fiber optic routing control module	VFIR-50	5 VCU control module data interaction	Fiber
Wave-by-wave current limiting control module	VCBC-A0	Wave-by-wave current limiting control parallel power module	Fiber
Upper computer	VCSofT		RS485

Multi-motor Drive Cabinet Structure Diagram

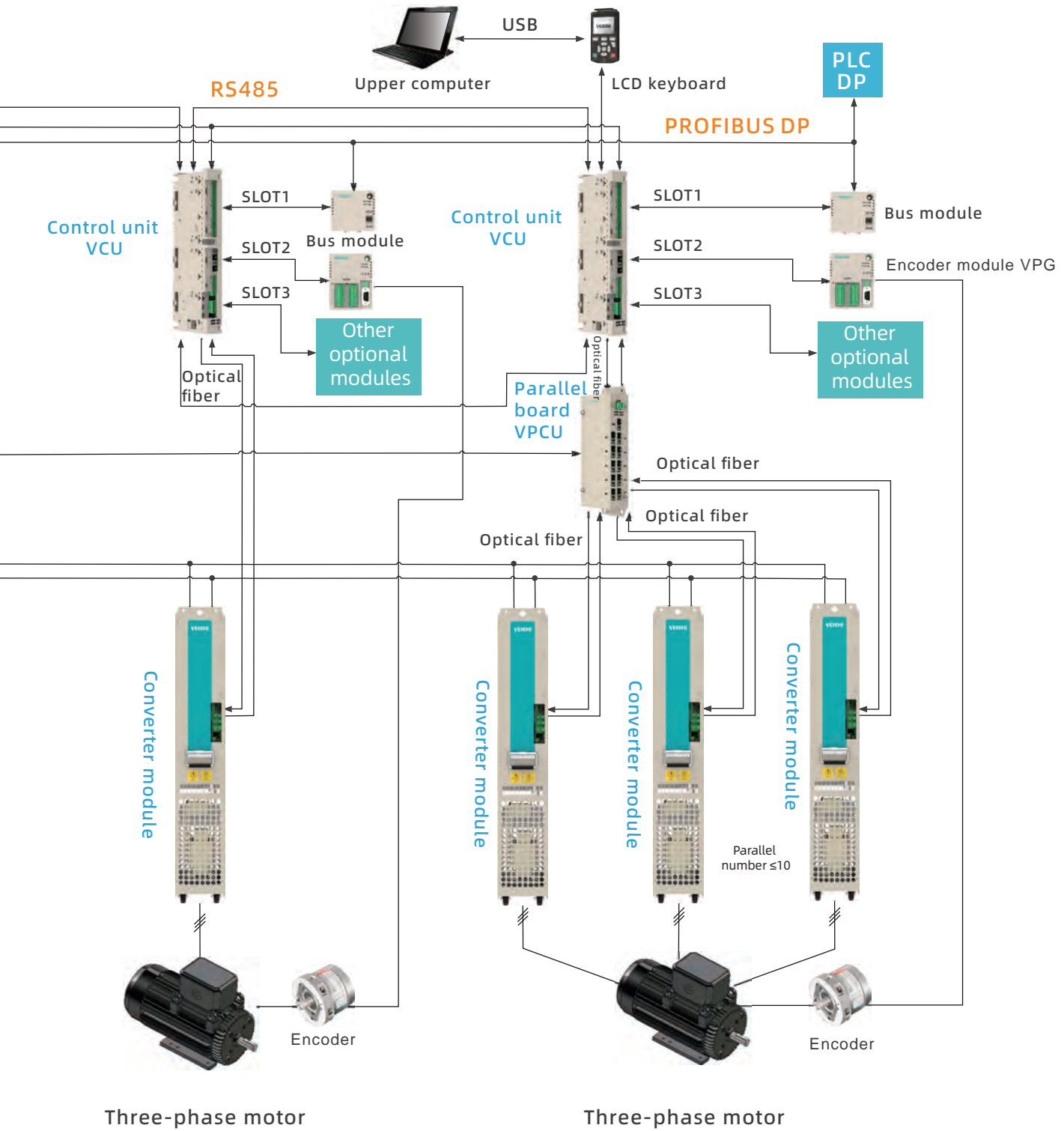




System topology diagram







Basic rectifier module

Basic rectifier module model 400V 380-460Vac	Non-overload applications					Light overload applications		Heavy overload applications		Structure
	I <sub>N(Ac)</sub>	I <sub>N(Adc)</sub>	I <sub>Max(Adc)</sub>	S <sub>N(kVA)</sub>	P <sub>N(kWdc)</sub>	I <sub>Ld(Adc)</sub>	P <sub>Ld(kWdc)</sub>	I <sub>Hd(Adc)</sub>	P <sub>Hd(kWdc)</sub>	model
6-pulse										
AC800-D10-T3-0718	718	879	1142	497	475	844	456	659	356	V8T
AC800-D10-T3-0980	980	1200	1680	679	648	1152	622	898	485	V8T
AC800-D10-T3-1336	1336	1635	2126	926	883	1570	848	1226	662	2*V8T
AC800-D10-T3-1822	1822	2232	3125	1263	1205	2143	1157	1670	902	2*V8T
AC800-D10-T3-2734	2734	3348	4687	1894	1808	3214	1735	2505	1353	3*V8T
AC800-D10-T3-3645	3645	4464	6250	2525	2411	4285	2314	3341	1804	4*V8T
AC800-D10-T3-4556	4556	5580	7812	3157	3013	5357	2892	4176	2255	5*V8T
AC800-D10-T3-5467	5467	6696	9374	3788	3616	6428	3471	5009	2705	6*V8T

12-pulse										
AC800-D10-T3-1336	1336	1635	2126	926	883	1570	848	1226	662	2*V8T
AC800-D10-T3-1822	1822	2232	3125	1263	1205	2143	1157	1670	902	2*V8T
AC800-D10-T3-2674	2674	3273	4255	1853	1767	3142	1697	2455	1325	4*V8T
AC800-D10-T3-3645	3645	4464	6250	2525	2411	4285	2314	3341	1804	4*V8T
AC800-D10-T3-4008	4008	4906	6377	2649	2777	4709	2543	3679	1987	6*V8T
AC800-D10-T3-5467	5467	6696	9374	3788	3616	6428	3471	5009	2705	6*V8T

Basic rectifier module model 690V 525-690Vac	Non-overload applications					Light overload applications		Heavy overload applications		Structure
	I <sub>N(Ac)</sub>	I <sub>N(Adc)</sub>	I <sub>Max(Adc)</sub>	S <sub>N(kVA)</sub>	P <sub>N(kWdc)</sub>	I <sub>Ld(Adc)</sub>	P <sub>Ld(kWdc)</sub>	I <sub>Hd(Adc)</sub>	P <sub>Hd(kWdc)</sub>	model
6-pulse										
AC800-D10-T6-0570	570	698	907	684	650	670	624	523	487	V8T
AC800-D10-T6-0815	815	998	1297	976	929	958	892	748	697	V8T
AC800-D10-T6-1061	1061	1299	1688	1272	1210	1247	1161	974	907	2*V8T
AC800-D10-T6-1515	1515	1854	2411	1815	1727	1780	1658	1391	1295	2*V8T
AC800-D10-T6-2273	2273	2782	3617	2724	2591	2671	2488	2087	1944	3*V8T
AC800-D10-T6-3031	3031	3710	4823	3631	3456	3561	3317	2782	2592	4*V8T
AC800-D10-T6-3788	3788	4636	6027	4538	4319	4451	4146	3477	3239	5*V8T
AC800-D10-T6-4546	4546	5564	7233	5446	5183	5341	4976	4173	3887	6*V8T

12-pulse										
AC800-D10-T6-1061	1061	1299	1688	1272	1210	1247	1161	974	907	2*V8T
AC800-D10-T6-1515	1515	1854	2411	1815	1727	1780	1658	1391	1295	2*V8T
AC800-D10-T6-2122	2122	2597	3376	2542	2419	2493	2323	1948	1814	4*V8T
AC800-D10-T6-3031	3031	3710	4823	3631	3456	3561	3317	2782	2592	4*V8T
AC800-D10-T6-4546	4546	5564	7233	5446	5183	5341	4976	4173	3887	6*V8T

Note:

I<sub>N</sub>: refers to the rated current that can withstand continuous running at 40°C without overload.

I<sub>max</sub>: refers to the maximum output current. It can last 10s at startup, or in other cases, the duration depends on drive temperature.

Light overload application: I<sub>Ld</sub> refers to the continuous current. 1 minute of overload is allowed every 5 minutes at 40°C, and the overload current is 110%\*I<sub>Ld</sub>

Heavy overload applications: I<sub>Hd</sub> refers to continuous current. 1 minute of overload is allowed every 5 minutes at 40°C, with an overload current of 150%\*I<sub>Hd</sub>

Structure model	Dimension (W*D*H mm)	Weight (kg)
V8T	230*584*1380	≤165

## Feedback rectifier component

Feedback rectifier module model 400V 380-460Vac	Non-overload applications					Light overload applications		Heavy overload applications		Structure model
	I <sub>N(Aac)</sub>	I <sub>N(Adc)</sub>	I <sub>Max(Adc)</sub>	S <sub>N(kVA)</sub>	P <sub>N(kWdc)</sub>	I <sub>Ld(Adc)</sub>	P <sub>Ld(kWdc)</sub>	I <sub>Hd(Adc)</sub>	P <sub>Hd(kWdc)</sub>	
AC800-R10-T3-0213-K	213	244	318	148	147	235	141	183	111	L+V6
AC800-R10-T3-0259-K	259	297	385	180	178	284	171	222	133	L+V6
AC800-R10-T3-0324-K	324	370	481	224	222	356	213	278	167	L+V7
AC800-R10-T3-0381-K	381	436	566	264	261	418	251	326	196	L+V7
AC800-R10-T3-0486-K	486	556	722	337	333	533	320	417	250	L+V7
AC800-R10-T3-0576-K	576	658	855	398	394	631	379	493	296	L+V8
AC800-R10-T3-0648-K	648	741	963	449	444	711	427	556	333	L+V8
AC800-R10-T3-0729-K	729	833	1083	505	500	800	480	625	375	L+V8
AC800-R10-T3-0907-K	907	1037	1348	629	622	996	597	778	467	L+V8
AC800-R10-T3-1071-K	1071	1223	1590	741	734	1174	704	917	550	L+2 *V8
AC800-R10-T3-1205-K	1205	1378	1791	835	827	1323	794	1033	620	L+2 *V8
AC800-R10-T3-1356-K	1356	1550	2015	939	930	1488	893	1163	698	L+2 *V8
AC800-R10-T3-1686-K	1686	1928	2508	1169	1157	1852	1111	1447	868	L+2 *V8
AC800-R10-T3-2141-K	2141	2447	3179	1482	1467	2348	1409	1834	1101	2* (L+2V8)
AC800-R10-T3-2241-K	2241	2564	3331	1553	1538	2460	1476	1922	1153	2* (L+2V8)
AC800-R10-T3-2711-K	2711	3100	4030	1879	1860	2976	1786	2325	1395	2* (L+2V8)
AC800-R10-T3-3373-K	3373	3856	5015	2338	2315	3703	2222	2893	1736	2* (L+2V8)
AC800-R10-T3-5059-K	5059	5785	7523	3507	3472	5555	3333	4340	2604	3* (L+2V8)

Feedback rectifier module model 690V 525-690Vac	Non-overload applications					Light overload applications		Heavy overload applications		Structure model
	I <sub>N(Aac)</sub>	I <sub>N(Adc)</sub>	I <sub>Max(Adc)</sub>	S <sub>N(kVA)</sub>	P <sub>N(kWdc)</sub>	I <sub>Ld(Adc)</sub>	P <sub>Ld(kWdc)</sub>	I <sub>Hd(Adc)</sub>	P <sub>Hd(kWdc)</sub>	
AC800-R10-T6-0212-K	212	258	336	252	241	248	231	194	181	L+V6
AC800-R10-T6-0257-K	257	313	407	306	292	301	280	235	219	L+V6
AC800-R10-T6-0321-K	321	391	509	382	365	376	351	293	274	L+V7
AC800-R10-T6-0377-K	377	460	598	449	429	441	412	345	322	L+V7
AC800-R10-T6-0481-K	481	587	763	573	548	564	526	440	411	L+V7
AC800-R10-T6-0600-K	600	734	955	717	685	705	657	551	513	L+V8
AC800-R10-T6-0900-K	900	1102	1432	1076	1026	1057	985	826	770	L+V8
AC800-R10-T6-1116-K	1116	1366	1776	1334	1272	1311	1221	1024	954	L+2 *V8
AC800-R10-T6-1674-K	1674	2049	2664	2001	1909	1967	1832	1537	1431	L+2 *V8
AC800-R10-T6-2232-K	2232	2732	3551	2667	2545	2623	2443	2049	1909	2* (L+2V8)
AC800-R10-T6-3348-K	3348	4098	5327	4001	3817	3934	3664	3073	2863	2* (L+2V8)
AC800-R10-T6-5022-K	5022	6147	7991	6002	5726	5901	5497	4610	4294	3* (L+2V8)

Note:

I<sub>N</sub>: refers to the rated current that can withstand continuous running at 40°C without overload.

I<sub>max</sub>: refers to the maximum output current. It can last 10s at startup, or in other cases, the duration depends on drive temperature.

Light overload application: I<sub>Ld</sub> refers to the continuous current. 1 minute of overload is allowed every 5 minutes at 40°C, and the overload current is 110%\*I<sub>Ld</sub>

Heavy overload applications: I<sub>Hd</sub> refers to continuous current. 1 minute of overload is allowed every 5 minutes at 40°C, with an overload current of 150%\*I<sub>Hd</sub>

Structure model	Dimension (W*D*H mm)	Weight (kg)
L+V6	420*455*1055	≤169
L+V7	445*500*1100	≤262
L+V8	493*584*1380	≤420

Active rectifier components

Active rectifier module model 400V 380-460Vac	Non-overload applications					Light overload applications		Heavy overload applications		Structure model
	IN(Aac)	IN(Adc)	IMax(Adc)	SN(kVA)	PN(kWdc)	ILd(Adc)	PLd(kWdc)	IHd(Adc)	PHd(kWdc)	
AC800-A10-T3-0094-K	94	107	140	65	64	103	62	81	48	LCL+V3
AC800-A10-T3-0116-K	116	133	172	90	89	126	86	101	60	LCL+V3
AC800-A10-T3-0149-K	149	170	221	103	102	164	98	128	77	LCL+V3
AC800-A10-T3-0192-K	192	220	286	133	132	211	127	165	100	LCL+V6
AC800-A10-T3-0233-K	233	267	347	162	160	256	154	200	120	LCL+V6
AC800-A10-T3-0292-K	292	333	433	202	200	320	192	250	150	LCL+V7
AC800-A10-T3-0343-K	343	392	509	237	235	376	226	294	176	LCL+V7
AC800-A10-T3-0437-K	437	500	650	303	300	480	288	375	225	LCL+V7
AC800-A10-T3-0518-K	518	592	769	359	355	568	341	444	266	LCL+V8
AC800-A10-T3-0583-K	583	667	867	404	400	640	384	500	300	LCL+V8
AC800-A10-T3-0656-K	656	750	975	455	450	720	432	563	338	LCL+V8
AC800-A10-T3-0816-K	816	933	1213	566	560	896	538	700	420	LCL+V8
AC800-A10-T3-0963-K	963	1101	1431	667	660	1056	634	825	495	LCL+2*V8
AC800-A10-T3-1125-K	1125	1364	1773	779	772	1309	741	1020	577	LCL+2*V8
AC800-A10-T3-1220-K	1220	1395	1814	845	837	1339	804	1046	628	LCL+2*V8
AC800-A10-T3-1584-K	1584	1921	2497	1097	1086	1884	1043	1437	813	LCL+2*V8
AC800-A10-T3-1927-K	1927	2202	2861	1334	1321	2113	1268	1651	990	2* (LCL+2*V8)
AC800-A10-T3-2250-K	2250	2728	3546	1558	1544	2618	1482	2040	1154	2* (LCL+2*V8)
AC800-A10-T3-2440-K	2440	2790	3627	1691	1674	2678	1607	2093	1256	2* (LCL+2*V8)
AC800-A10-T3-3105-K	3105	3765	4894	2151	2130	3614	2045	2816	1593	2* (LCL+2*V8)
AC800-A10-T3-4617-K	4617	5598	7278	3199	3167	5374	3040	4187	2369	3* (LCL+2*V8)

Active rectifier module model 690V 525-690Vac	Non-overload applications					Light overload applications		Heavy overload applications		Structure model
	IN(Aac)	IN(Adc)	IMax(Adc)	SN(kVA)	PN(kWdc)	ILd(Adc)	PLd(kWdc)	IHd(Adc)	PHd(kWdc)	
AC800-A10-T6-0099-K	99	113	147	118	117	107	110	83	86	LCL+V6
AC800-A10-T6-0270-K	270	308	400	323	319	296	299	227	234	LCL+V7
AC800-A10-T6-0369-K	369	422	548	441	437	405	419	316	327	LCL+V8
AC800-A10-T6-0540-K	540	617	802	645	639	593	613	463	479	LCL+V8
AC800-A10-T6-0701-K	701	801	1042	838	829	769	796	601	622	LCL+2*V8
AC800-A10-T6-1026-K	1026	1173	1525	1226	1214	1126	1165	880	910	LCL+2*V8
AC800-A10-T6-1402-K	1402	1603	2083	1676	1659	1539	1592	1202	1244	2* (LCL+2*V8)
AC800-A10-T6-2052-K	2052	2346	3049	2452	2428	2252	2331	1759	1821	2* (LCL+2*V8)
AC800-A10-T6-3078-K	3078	3519	4574	3678	3642	3378	3496	2639	2731	3* (LCL+2*V8)
AC800-A10-T6-4104-K	4104	4691	6099	4905	4856	4504	4661	3519	3642	4* (LCL+2*V8)
AC800-A10-T6-5130-K	5130	5864	7623	6131	6069	5630	5827	4398	4552	5* (LCL+2*V8)

Structure model	Dimension (W*D*H mm)	Weight (kg)
LCL+V3	440*400*550	≤78
LCL+V6	420*455*1055	≤169
LCL+V7	445*500*1100	≤262
LCL+V8	493*584*1380	≤420

Note:

IN: refers to the rated current that can withstand continuous running at 40°C without overload.

IMax: refers to the maximum output current. It can last 10s at startup, or in other cases, the duration depends on drive temperature.

Light overload application: ILd refers to the continuous current. 1 minute of overload is allowed every 5 minutes at 40°C, and the overload current is 110%\*ILd

Heavy overload applications: IHd refers to continuous current. 1 minute of overload is allowed every 5 minutes at 40°C, with an overload current of 150%\*IHd

## Converter module

Model 400V 380-460Vac	Non-overload applications			Light overload applications		Heavy overload applications		Structure model
	IN(Aac)	IMax(Aac)	PN(kW)	ILd(Aac)	PLd(kWac)	IHD(Aac)	PHd(kWac)	
AC800-120-T3-0005	5	6	2.2	5	2.2	3.8	1.5	V2
AC800-120-T3-0007	7	8	4	7	3.7	5.1	2.2	V2
AC800-120-T3-0012	12	14	5.5	12	5.5	9	4	V2
AC800-120-T3-0017	17	21	7.5	17	7.5	13	5.5	V2
AC800-120-T3-0023	23	27	11	22	11	17	7.5	V2
AC800-120-T3-0033	33	40	15	32	15	25	11	V2
AC800-120-T3-0038	38	51	18.5	37	18.5	32	15	V2
AC800-120-T3-0049	49	59	22	47	22	37	18.5	V2
AC800-120-T3-0060	60	72	30	58	30	45	30	V2
AC800-120-T3-0080	80	96	37	77	37	60	30	V2
AC800-120-T3-0094	94	120	45	91	45	75	37	V2
AC800-120-T3-0116	116	146	55	112	55	91	45	V3
AC800-120-T3-0149	149	179	75	143	75	112	55	V3
AC800-120-T3-0183	183	240	90	176	90	150	75	V3
AC800-120-T3-0240	240	294	110	230	110	180	90	V6
AC800-120-T3-0300	300	358	132	288	132	225	110	V6
AC800-120-T3-0350	350	419	160	336	160	263	132	V7
AC800-120-T3-0396	396	486	200	380	200	297	160	V7
AC800-120-T3-0518	518	619	250	497	250	389	200	V7
AC800-120-T3-0600	600	732	315	576	280	450	250	V8
AC800-120-T3-0670	670	825	355	643	315	503	280	V8
AC800-120-T3-0758	758	910	400	728	400	569	315	V8
AC800-120-T3-0900	900	1080	500	864	450	675	355	V8
AC800-120-T3-1164	1164	1420	630	1117	500	873	450	2*V8
AC800-120-T3-1313	1313	1576	630	1261	630	985	500	2*V8
AC800-120-T3-1486	1486	1783	800	1426	800	1114	630	2*V8
AC800-120-T3-1764	1764	2117	1000	1693	900	1323	710	2*V8
AC800-120-T3-2217	2217	2661	1200	2128	1200	1663	900	3*V8
AC800-120-T3-2619	2619	3143	1400	2514	1400	1964	1000	3*V8
AC800-120-T3-3456	3456	4147	1800	3318	1800	2592	1400	4*V8
AC800-120-T3-4298	4298	5157	2400	4126	2000	3223	1800	5*V8
AC800-120-T3-5130	5130	6156	2800	4925	2400	3848	2000	6*V8

Converter module model 690V 525-690Vac	Non-overload applications			Light overload applications		Heavy overload applications		Structure model
	IN(Aac)	IMax(Aac)	PN(kW)	ILd(Aac)	PLd(kWac)	IHd(Aac)	PHd(kWac)	
AC800-I20-T6-0062	62	74	55	60	55	46	45	V6
AC800-I20-T6-0082	82	98	75	79	75	61	55	V6
AC800-I20-T6-0099	99	118	90	95	90	74	75	V6
AC800-I20-T6-0125	125	150	110	120	110	94	90	V6
AC800-I20-T6-0144	144	173	132	138	132	108	110	V6
AC800-I20-T6-0192	192	230	160	184	160	144	132	V6
AC800-I20-T6-0217	217	259	200	215	200	162	160	V7
AC800-I20-T6-0270	270	323	250	260	250	202	200	V7
AC800-I20-T6-0340	340	408	315	326	315	255	250	V7
AC800-I20-T6-0410	410	492	400	394	355	308	315	V8
AC800-I20-T6-0530	530	636	500	509	450	398	355	V8
AC800-I20-T6-0600	600	720	560	576	560	450	400	V8
AC800-I20-T6-0650	650	780	630	624	560	488	450	V8
AC800-I20-T6-0721	721	865	710	692	630	541	560	V8
AC800-I20-T6-0779	779	935	800	748	710	584	560	2*V8
AC800-I20-T6-1007	1007	1208	1000	967	900	755	710	2*V8
AC800-I20-T6-1140	1140	1368	1100	1094	1000	855	800	2*V8
AC800-I20-T6-1235	1235	1482	1200	1186	1100	926	900	2*V8
AC800-I20-T6-1370	1370	1644	1300	1315	1200	1027	1000	2*V8
AC800-I20-T6-1510	1510	1813	1400	1450	1400	1133	1100	3*V8
AC800-I20-T6-1710	1710	2052	1600	1642	1600	1283	1200	3*V8
AC800-I20-T6-1853	1853	2223	1800	1778	1700	1389	1300	3*V8
AC800-I20-T6-2050	2050	2466	2000	1973	1900	1541	1500	3*V8
AC800-I20-T6-2280	2280	2736	2000	2189	2000	1710	1600	4*V8
AC800-I20-T6-2470	2470	2964	2400	2371	2300	1853	1800	4*V8
AC800-I20-T6-2740	2740	3288	2700	2630	2600	2055	2000	4*V8
AC800-I20-T6-3088	3088	3705	3000	2964	2900	2316	2300	5*V8
AC800-I20-T6-3425	3425	4110	3400	3288	3200	2569	2500	5*V8
AC800-I20-T6-3705	3705	4446	3600	3557	3500	2779	2700	6*V8
AC800-I20-T6-4110	4110	4932	4000	3945	3900	3082	3000	6*V8
AC800-I20-T6-4323	4323	5187	4300	4150	4100	3242	3200	7*V8
AC800-I20-T6-4795	4795	5754	4700	4603	4500	3596	3500	7*V8
AC800-I20-T6-4940	4940	5928	4900	4742	4700	3705	3600	8*V8
AC800-I20-T6-5480	5480	6576	5400	5260	5200	4110	4000	8*V8

Structure model	Dimension (W*D*H mm)	Weight (kg)
V2	100*413*415	≤9
V3	200*413*415	≤18
V6	180*420*820	≤38
V7	180*460*920	≤52
V8	230*584*1380	≤142

Note:

In: refers to the rated current that can withstand continuous running at 40°C without overload.

IMax: refers to the maximum output current. It can last 10s at startup, or in other cases, the duration depends on drive temperature.

Light overload application: ILd refers to the continuous current. 1 minute of overload is allowed every 5 minutes at 40°C, and the overload current is 110%\*ILd

Heavy overload applications: IHd refers to continuous current. 1 minute of overload is allowed every 5 minutes at 40°C, with an overload current of 150%\*IHd

## Two-quadrant single-motor driven cabinet

Basic rectifier single-motor driven two-quadrant cabinet model 400V 380-460Vac	Non-overload applications		Light overload applications		Heavy overload applications	
	Current(A)	Power (kW)	Current(A)	Power (kW)	Current(A)	Power (kW)
AC800-S55-T3-1313	1313	630	1261	630	985	500
AC800-S55-T3-1486	1486	800	1426	800	1114	630
AC800-S55-T3-1764	1764	1000	1693	900	1323	710
AC800-S55-T3-2217	2217	1200	2128	1200	1663	900
AC800-S55-T3-2619	2619	1400	2514	1400	1964	1000
AC800-S55-T3-3456	3456	1800	3318	1800	2592	1400
AC800-S55-T3-4298	4298	2400	4126	2000	3223	1800
AC800-S55-T3-5130	5130	2800	4925	2400	3848	2000

Basic rectifier single-motor driven two-quadrant cabinet model 690V 525-690Vac	Non-overload applications		Light overload applications		Heavy overload applications	
	Current(A)	Power (kW)	Current(A)	Power (kW)	Current(A)	Power (kW)
AC800-S55-T6-0779	779	800	748	710	584	560
AC800-S55-T6-1007	1007	1000	967	900	755	710
AC800-S55-T6-1140	1140	1100	1094	1000	855	800
AC800-S55-T6-1235	1235	1200	1186	1100	926	900
AC800-S55-T6-1370	1370	1300	1315	1200	1027	1000
AC800-S55-T6-1710	1710	1600	1642	1600	1283	1200
AC800-S55-T6-2280	2280	2000	2189	2000	1710	1600
AC800-S55-T6-2740	2740	2700	2630	2600	2055	2000
AC800-S55-T6-3080	3088	3000	2964	2900	2316	2300
AC800-S55-T6-3705	3705	3600	3557	3500	2779	2700
AC800-S55-T6-4110	4110	4000	3945	3900	3082	3000
AC800-S55-T6-4323	4323	4300	4150	4100	3242	3200
AC800-S55-T6-4940	4940	4900	4742	4700	3705	3600
AC800-S55-T6-5480	5480	5400	5260	5200	4110	4000

## Four-quadrant single-motor driven cabinet

Active rectifier single-motor driven four-quadrant cabinet model 400V 380-460Vac	Non-overload applications		Light overload applications		Heavy overload applications	
	Current(A)	Power (kW)	Current(A)	Power (kW)	Current(A)	Power (kW)
AC800-S75-T3-0121	121	55	116	55	91	45
AC800-S75-T3-0149	149	75	143	75	112	55
AC800-S75-T3-0200	200	90	192	90	150	75
AC800-S75-T3-0240	240	110	230	110	180	90
AC800-S75-T3-0300	300	132	288	132	225	110
AC800-S75-T3-0350	350	160	336	160	263	132
AC800-S75-T3-0396	396	200	380	200	297	160
AC800-S75-T3-0518	518	250	497	250	389	200
AC800-S75-T3-0600	600	315	576	280	450	250
AC800-S75-T3-0670	670	355	643	315	503	280
AC800-S75-T3-0758	758	400	728	400	569	315
AC800-S75-T3-0900	900	500	864	450	675	355
AC800-S75-T3-1164	1164	630	1117	500	873	450
AC800-S75-T3-1313	1313	710	1261	630	985	500
AC800-S75-T3-1486	1486	800	1426	800	1114	630
AC800-S75-T3-1764	1764	1000	1693	900	1323	710
AC800-S75-T3-2217	2217	1200	2128	1200	1663	900
AC800-S75-T3-2619	2619	1400	2514	1400	1964	1000
AC800-S75-T3-3456	3456	1800	3318	1800	2592	1400
AC800-S75-T3-4298	4298	2400	4126	2000	3223	1800
AC800-S75-T3-5130	5130	2800	4925	2400	3848	2000

Active rectifier single-motor driven four-quadrant cabinet model 690V 525-690Vac	Non-overload applications		Light overload applications		Heavy overload applications	
	Current(A)	Power (kW)	Current(A)	Power (kW)	Current(A)	Power (kW)
AC800-S75-T6-0062	62	55	60	55	46	45
AC800-S75-T6-0082	82	75	79	75	61	55
AC800-S75-T6-0099	99	90	95	90	74	75
AC800-S75-T6-0125	125	110	120	110	94	90
AC800-S75-T6-0144	144	132	138	132	108	110
AC800-S75-T6-0192	192	160	184	160	144	132
AC800-S75-T6-0217	217	200	215	200	162	160
AC800-S75-T6-0270	270	250	260	250	202	200
AC800-S75-T6-0340	340	315	326	315	255	250
AC800-S75-T6-0410	410	400	394	355	308	315
AC800-S75-T6-0530	530	500	509	450	398	355
AC800-S75-T6-0600	600	560	576	560	450	400
AC800-S75-T6-0650	650	630	624	560	488	450
AC800-S75-T6-0721	721	710	692	630	541	560
AC800-S75-T6-0779	779	800	748	710	584	560
AC800-S75-T6-1140	1140	1100	1094	1000	855	800
AC800-S75-T6-1510	1510	1400	1450	1400	1133	1100
AC800-S75-T6-2280	2280	2000	2189	2000	1710	1600
AC800-S75-T6-3425	3425	3400	3288	3200	2569	2500
AC800-S75-T6-4323	4323	4300	4150	4100	3242	3200
AC800-S75-T6-5480	5480	5400	5260	5200	4110	4000

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