

Industrial Automation

- Inverter
- Industrial internet of things
- Servosystem
- Elevator integrated controller
- Control system
- Engineering vehicle controller
- Sensor
- Internal Gear Pump

Customized power supply

- Communication power supply
- Display power supply
- OA power supply
- Server power supply
- Photovoltaic (PV)
- Flat-panel power supply
- Electric Power Supply
- Energy storage system
- Medical power supply
- Charging pile components
- Industrial microwave power supply
- Guide rail power supply (ODM)

New Energy Vehicles and Rail Transit

- In-vehicle integrated charging system
- Rail transit air conditioning controller
- Motor controllers
- Rail transit inverter
- All-in-one high voltage integrated driver
- PFC
- Electric compressor
- Thermal management system

Smart Appliance Electronic Control

- Heating Ventilation and air conditioner (HVAC)
- Washing (Drying) machines
- Space heating
- Intelligent sanitary ware
- Microwave oven
- Induction heating
- Cold chain

Precision connection

- Flexible flat cable
- FPC
- Coaxial line
- Lacquered wire
- SQ common-mode inductor

Intelligent equipment

- Intelligent digital welding machine
- Industrial microwave equipment
- Intelligent oil recovery system for submersible screw pumps

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V1.0

MEGMEET

Shenzhen SC: 002851



General-Purpose Inverter

MV160

MV260

ISO9001 | ISO14001 | IATF14001 | ISO13485

Company Profile

Shenzhen Megmeet Drive Technology Co., Ltd. is a leading manufacturer of AC servo drive products for industrial and commercial applications in China. Our innovative drive products are widely used in applications where product performance, reliability, and system efficiency are very demanding.

Megmeet focuses on the development, production and sales of drives and related power conversion systems. With strong technical innovation capabilities, our company quickly provides personalized solutions for medium and high-end customers to achieve a win-win situation. The main products include low and medium-voltage frequency inverters, integrated and special machines, servo systems, automotive motor controllers, etc. Our products are widely used in the industries of lift, lifting, plastic, automotive, municipal, printing and packaging, textile and chemical fiber, wire and cable, machine tools, metal products, coal mining, building materials, metallurgy, etc.

Our company is a national high-tech enterprise, and its subsidiary Nanjing Software Company has passed the national "double soft" enterprise certification, Megmeet won the honorary title of Top Ten Innovative Enterprises in China's electrical industry in 2012 and participated in the national 863 critical projects as a backbone enterprise.

Many of our company's doctors have worked for a long time in well-known overseas companies and have a deep understanding of drive and power electronic conversion and the industrialization of related products. More than 40% of the team members have bachelor's degrees or above from well-known universities in China, with a number of core team members.



R&D base (Shenzhen)

- 75 Certified patents and copyrights
- 6 Invention patents
- 43 Practical patents
- 12 Appearance patents
- 14 Software copyrights

Corporate Culture

Vision	Mission	Philosophy	Responsibility
To be the first-class provider of electrical automation products and solutions	Gather core technologies to provide customers with optimal components and solutions	Efficient use of electrical energy to provide a comfortable living environment for human beings	Comply with laws and regulations, treat employees well, conserve resources, and protect the environment



Golbal manufacturing center (ZhuZhou)

MV160 Series General-purpose Inverter

MV160 Series General-purpose Inverter

The MV160 is a general and compact inverter custom developed by Megmeet Drive Technologies for OEM equipment manufacturers. The advanced space vector and V/F algorithms ensure extremely high motor drive performance. Closer to the strong power design of small OEM equipment in unstable power grids, it ensures the ability to operate under low voltage, high shock and fluctuating voltage. The core devices are imported brands, large margin design selection, completely independent air duct design and automatic three-proof spraying process greatly improve the reliability in extreme environments. The ingenious external keyboard design and industry-specific parameter settings greatly enhance customer ease of use. Widely used in textile, woodworking, printing and dyeing, food packaging, conveying, fine engraving machine, winding and other industries.



Product Features

High Performance

- ◆ Strong quick start and stop capability, vector control mode 0.5Hz output 200% torque, V/F control mode 0.5Hz output 150% torque, 2Hz output 200% torque.
- ◆ Various acceleration and deceleration stop curves are available to ensure efficient and smooth operation of the equipment.
- ◆ Over-excitation braking technology, reducing or even eliminating the use of braking resistors.
- ◆ Industry-leading open-loop vector algorithm for synchronous and asynchronous motors.

More Reliable

- ◆ The core devices are imported brands, and the main circuit module is designed with a large margin to ensure long-term stable operation and sudden change of load.
- ◆ Independent air duct+multiple options for operation, reducing the possibility of dust, oil and gas inside the inverter to improve reliability.
- ◆ Advanced automation and three-proof spraying process ensure high reliability and consistency of products.

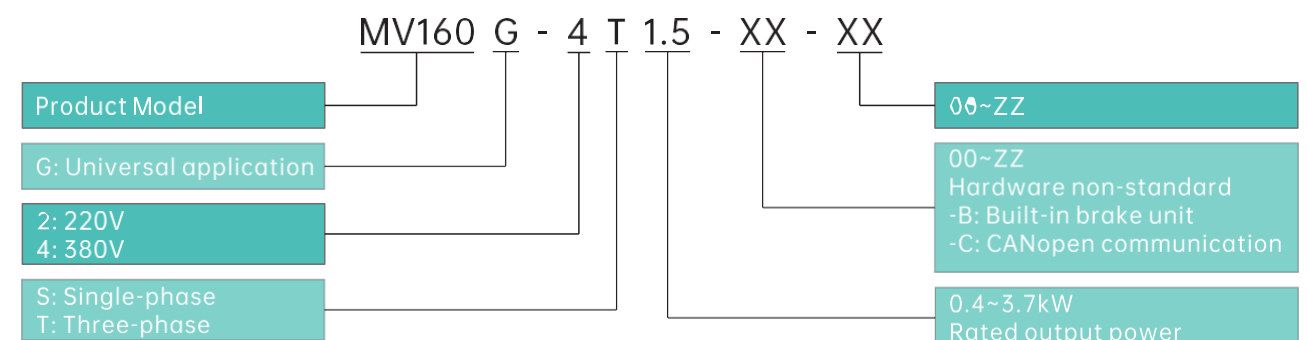
Strong Adaptation

- ◆ Long-term operation without load shedding at less than 15% rated voltage, short-time operation without load shedding at less than 20% rated voltage, and voltage warning signal.
- ◆ Overload capability: 150% rated current for 60s, 180% rated current for 3s, 200% rated current for 1s.
- ◆ Characteristic design of earth capacitance jumper to enhance the adaptability of leakage voltage and leakage current sensitive scenes.
- ◆ Low installation height, suitable for highly sensitive electrical box assembly.

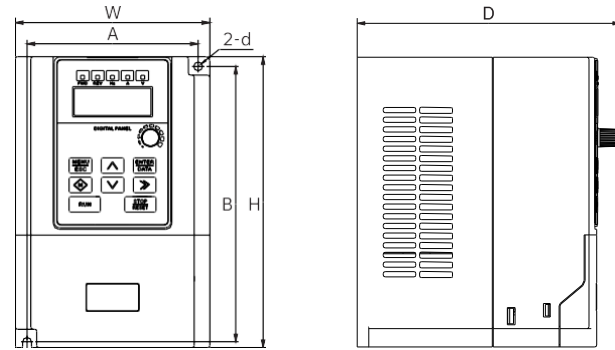
Easier to use

- ◆ One-touch setting of parameters for each workstation of the industry-specific machine reduces the time of machine adjustment.
- ◆ External keyboard with parameter copy function, convenient for production and after-sales, greatly improving efficiency.
- ◆ Removable fan for easy maintenance.

Product Model



Product Mounting Dimensions

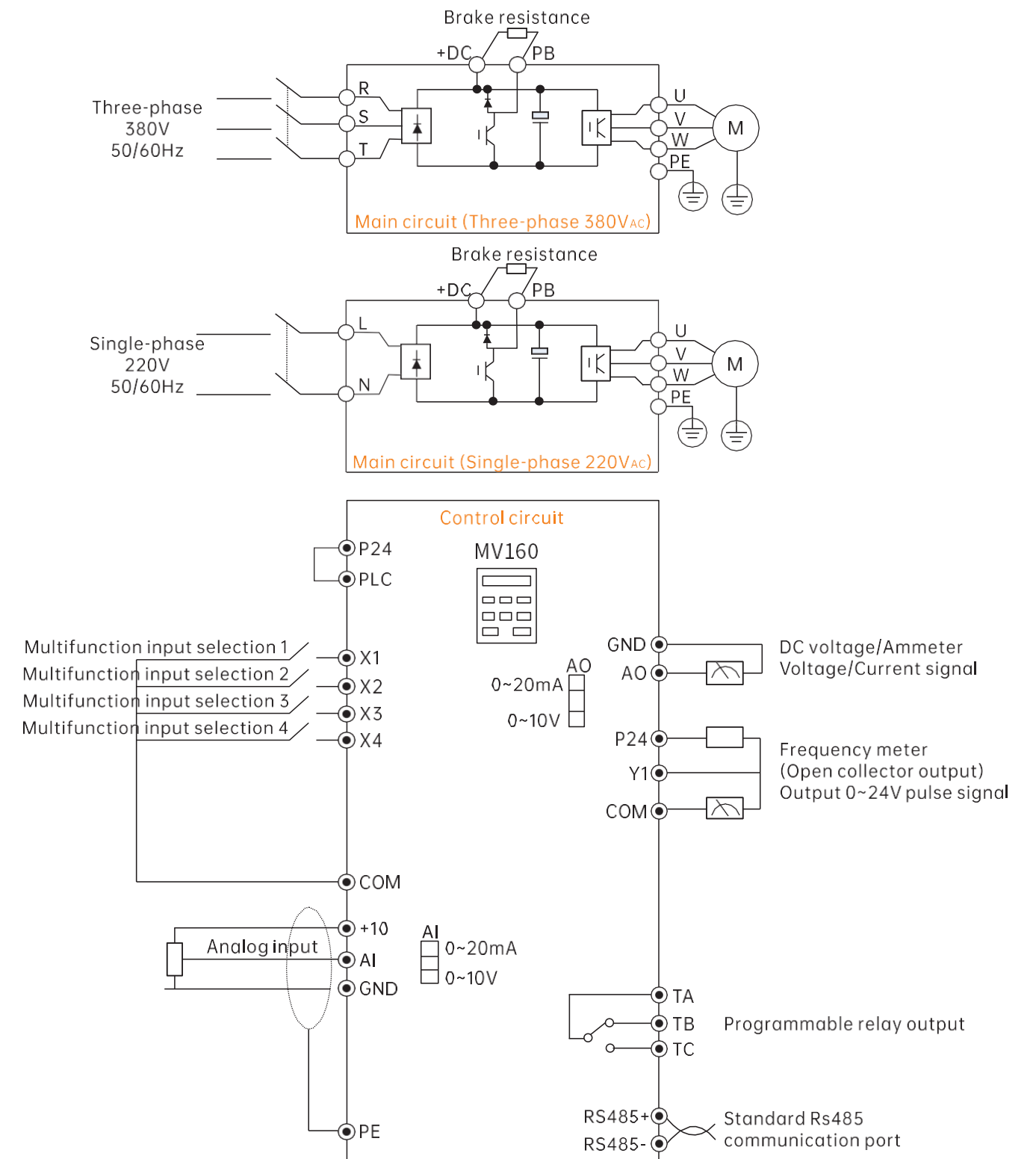


Voltage level	Product model	Overall Dimension (mm)			Mounting hole position(mm)		Diameter of mounting aperture d(mm)	Gross weight±0.5 (kg)
		H	W	D	A	B		
Single-phase 220V _{AC}	MV160G-2S0.4	150	100	136	88	142	4.5	1.3
	MV160G-2S0.75							
	MV160G-2S1.5							
	MV160G-2S2.2							
Three-phase 380V _{AC}	MV160G-4T0.75	150	100	136	88	142	4.5	1.3
	MV160G-4T1.5							
	MV160G-4T2.2							
	MV160G-4T3.7							

Product Model and Technical specifications

Input power	Product model	Rated capacity (kVA)	Rated input current (A)	Rated output current (A)	Rated output power (kW)	Braking unit
Single-phase 200~240V ±15%	MV160G-2S0.4	1.0	6.5	2.5	0.4	150Ω/180W
	MV160G-2S0.75	1.6	9.7	4.2	0.75	100Ω/250W
	MV160G-2S1.5	2.9	15.4	7.5	1.5	70Ω/400W
	MV160G-2S2.2	4.2	24.0	11.0	2.2	50Ω/600W
Three-phase 380~480V ±10%	MV160G-4T0.75	2.0	3.2	2.5	0.75	400Ω/300W
	MV160G-4T1.5	3.3	4.3	4.2	1.5	300Ω/500W
	MV160G-4T2.2	4.4	7.1	5.5	2.2	200Ω/650W
	MV160G-4T3.7	6.8	11.2	8.5	3.7	125Ω/1000W

Wiring for basic operation



Control specification parameters

Power Input/Output	
Rated voltage (V)	Three-phase: 380V to 480V; Voltage fluctuation $\pm 10\%$ continuously, Single-phase: 200V to 240V; Voltage fluctuation $\pm 15\%$ continuously.
Rated frequency (Hz)	50/60Hz, Fluctuation range $\pm 5\%$
Output voltage (V)	Rated input condition output three-phase, 0~rated input voltage, error less than $\pm 3\%$
Output frequency (Hz)	VF: 0.0~2000.0Hz, Unit: 0.1Hz; Vector control: 0~650.0Hz
Overload capacity	150% rated current for 1 minute, 180% rated current for 3 second, 200% rated current for 1 second
Operational control characteristic	
Control mode	Vector control without PG, V/F control without PG
Maximum output frequency	V/F control: 2000.0Hz, Vector control: 650.0Hz
Speed range	1:100
Speed control precision	$\pm 0.5\%$
Speed fluctuation	$\pm 0.3\%$
Startup torque	0.5Hz 150%
Product Function	
Key function	Torque limit, multi-stage speed operation, auto-tuning, skip frequency operation, PID adjustment, non-stop upon instantaneous power interruption, switching of multi-command, MODBUS communication, automatic restart, DC braking, dynamic braking, dwell function.
Basic frequency	0.1Hz~2000.0Hz
Starting frequency	0.0Hz~60.0Hz
Frequency setting mode	Digital panel setting, Terminal UP/DN setting, Upper computer communication setting, Analog setting (AI), Terminal pulse setting
Acceleration and deceleration time	0.1~3600.0, Unit optional: 0.1s、s、min
Energy consumption braking capacity	Built-in braking unit, braking rate 0.0~100.0%
DC braking capability	Starting frequency: 0.0Hz~60.00Hz; Braking time: 0.1s~30.0s; Braking current: 0%~100%
Protection Function	
Overcurrent, overvoltage, undervoltage, overheat, overload protection, etc.	
Other	
Efficiency	$\geq 93\%$
Installation mode	Wall mounted
Protection level	IP20
Cooling mode	Air cooling

Environment	
Application place	Indoor, free from direct sunlight, free from corrosive gas, flammable gas, oil mist, water vapor, dripping water or salt etc.
Altitude	Less than 1000 meters (for derating over 1000 meters, 1% derating for each rise of 100 meters)
Ambient temperature	-10°C~+40°C (If the ambient temperature is between 40°C~50°C, please reduce the amount)
Humidity	5%~95%RH, no condensation of water beads
Vibration	Less than 5.9 m/s ² (0.6g)
Storage temperature	-40°C~+70°C

MV260 Series General-purpose Inverter

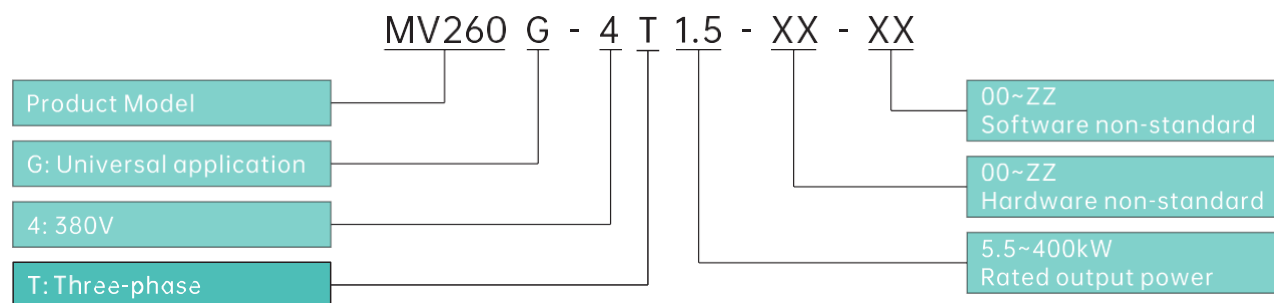
MV260 adopts a unique control method to achieve high performance, high torque and a wide range of speed regulation. The product has a perfect anti-trip control design, easy to use, and good field adaptability to ensure continuous and reliable operation in harsh grid, dust and other complex environments. For general customer needs, the product provides practical process closed-loop control, multi-function input and output terminals, pulse frequency feeding, main and auxiliary feed control, etc., to meet customers' industrial and personalized needs, which is of great value to reduce system costs and improve system reliability. Also through the overall design of electromagnetic compatibility and the use of optimized PWM control technology, to meet the user's environmental requirements for low noise and low electromagnetic interference in the application site.



Product Features

- ◆ New core hardware platform, optimized motor control algorithm, support for V/F, SVC (FVC optional);
- ◆ Integrated control of asynchronous motor speed/torque;
- ◆ Simple, easy to use, convenient debugging, high reliability, a wide range of speed regulation;
- ◆ Extraordinary anti-trip performance to ensure long-term reliable operation of the equipment;
- ◆ Adaptable to external harsh grid, dust and other complex environments;

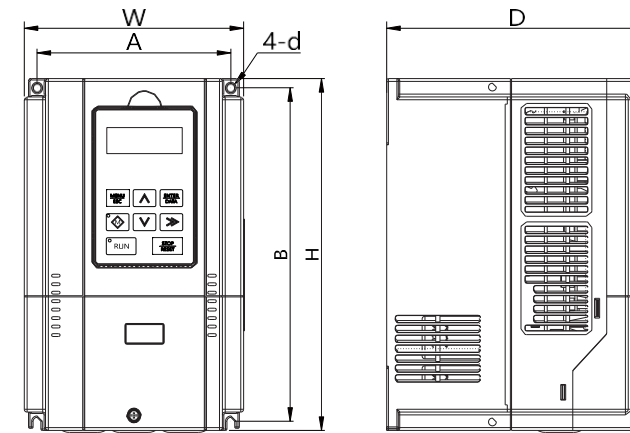
Product Model



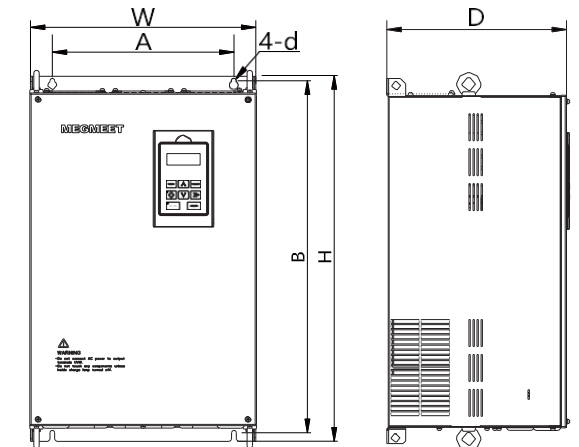
Typical Application



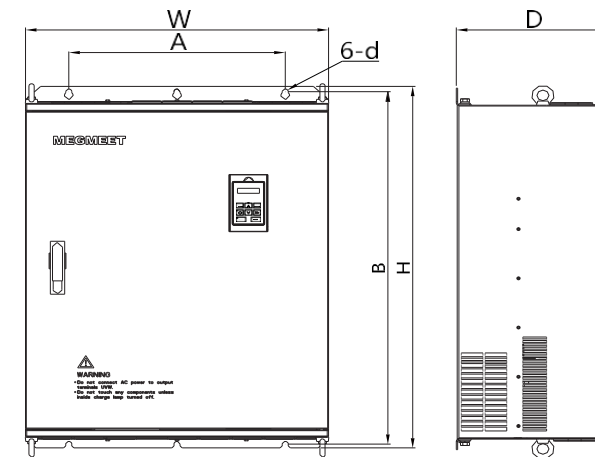
Product Mounting Dimensions



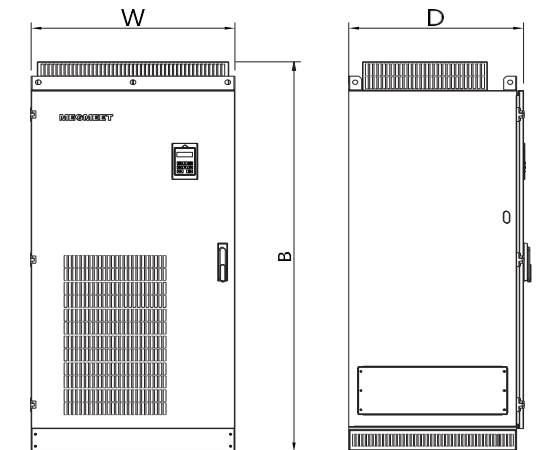
Outline, mounting dimensions for products R2, R3, R4



Outline, mounting dimensions for products R5 to R8



Outline, mounting dimensions for products R9, R10



Outline, mounting dimensions for products R11

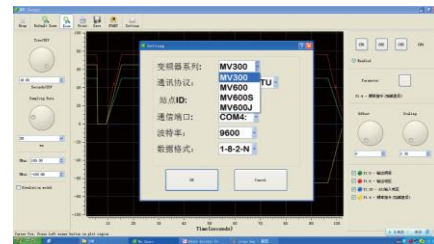
Enclosure model	Product Model	A (mm)	B (mm)	H (mm)	W (mm)	D (mm)	Diameter of mounting aperture(mm)	Gross weight ±0.5(kg)
R3	MV260G-4T5.5	137	236	249	155	198	5.5	4
	MV260G-4T7.5							
	MV260G-4T11							
R4	MV260G-4T15	186	314.5	330	209	206	6.5	9
	MV260G-4T18.5							
	MV260G-4T22							
R5D	MV260G-4T30	220	437.5	451.5	284.5	213	6.5	19
	MV260G-4T37							
R6	MV260G-4T45	270	549	570	335	267	7	41
	MV260G-4T55							
R7	MV260G-4T75	270	579	600	335	292	7	49

Enclosure model	Product Model	A (mm)	B (mm)	H (mm)	W (mm)	D (mm)	Diameter of mounting aperture(mm)	Gross weight ±0.5(kg)
R7D	MV260G-4T75-S	220	601.3	621.8	313	258	7	35
	MV260G-4T90-S							
R8	MV260G-4T90	350	705	726.5	452	328.5	12	87
	MV260G-4T110							
	MV260G-4T132							
R9	MV260G-4T160	350	827.5	849.5	500	350	12	154
	MV260G-4T200							
R10	MV260G-4T220	500	932	956	700	361.5	14	216
	MV260G-4T250							
	MV260G-4T280							
	MV260G-4T315							
R11	MV260G-4T355	-	-	1624	710	610	-	250
	MV260G-4T400							

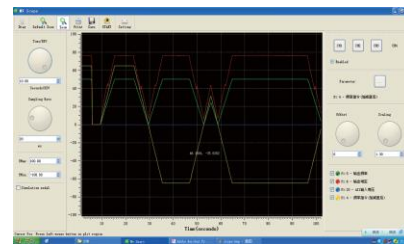
Product Model and Technical specifications

Enclosure model	Product Model	Rated capacity (kVA)	Rated input current (A)	Rated output current (A)	Rated input power (kW)
R3	MV260G-4T5.5	8.5	14.5	13.0	5.5
	MV260G-4T7.5	11.0	20.5	17.0	7.5
	MV260G-4T11	17.0	26.0	25.0	11
R4	MV260G-4T15	21.0	35.0	32.0	15
	MV260G-4T18.5	24.0	38.5	37.0	18.5
	MV260G-4T22	30.0	46.5	45.0	22
R5D	MV260G-4T30	40.0	62.0	60.0	30
	MV260G-4T37	50.0	76.0	75.0	37
R6	MV260G-4T45	60.0	92.0	90.0	45
	MV260G-4T55	72.0	113.0	110.0	55
R7	MV260G-4T75	100.0	157.0	152.0	75
R7D	MV260G-4T75-S	100.0	157.0	152.0	75
	MV260G-4T90-S	116.0	180.0	176.0	90
R8	MV260G-4T90	116.0	180.0	176.0	90
	MV260G-4T110	138.0	214.0	210.0	110
	MV260G-4T132	167.0	256.0	253.0	132
R9	MV260G-4T160	200.0	307.0	304.0	160
	MV260G-4T200	250.0	385.0	380.0	200
R10	MV260G-4T220	280.0	430.0	426.0	220
	MV260G-4T250	355.0	468.0	465.0	250
	MV260G-4T280	396.0	525.0	520.0	280
	MV260G-4T315	445.0	590.0	585.0	315
R11	MV260G-4T355	500.0	665.0	650.0	355
	MV260G-4T400	565.0	785.0	725.0	400

MV-SMART Upper Software



- Supports multiple inverter networking

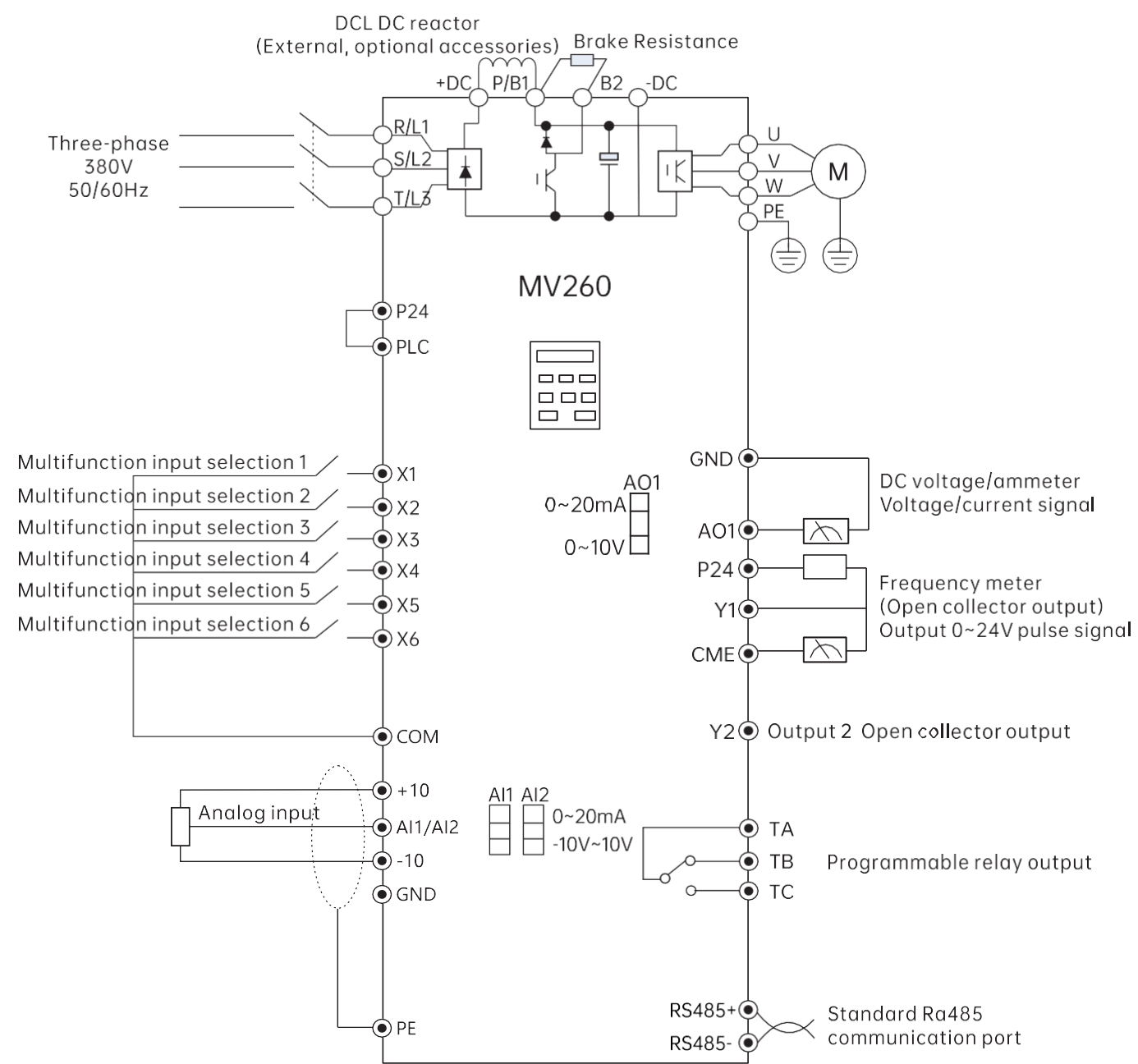


- Supports four channels of analog or digital sampling for real-time monitoring of process variables
- Adjustable sampling time and refresh rate
- Supports waveform scaling and playback

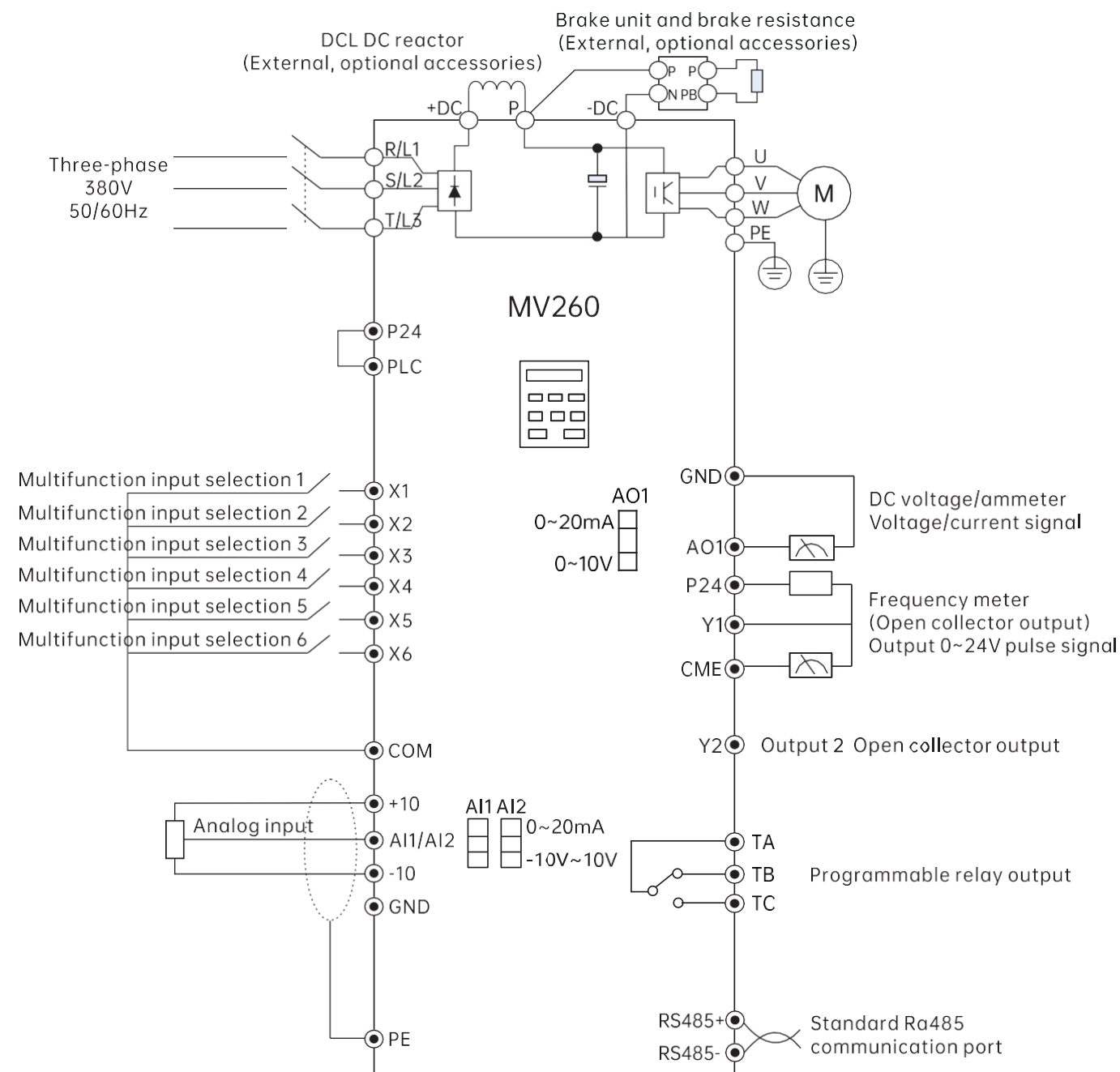


- Supports saving, uploading and downloading of parameter files

Wiring for basic operation



Basic wiring diagram 1 (Suitable for 75kW and below models)



Basic wiring diagram 2 (Suitable for 90kW and above models)

Note: "○" in the figure is main circuit terminal and "●" in the figure is control circuit terminal.

Control specification parameters

Power Input/Output	
Rated voltage (V)	Three-phase: 380V~480V; Voltage fluctuation $\pm 10\%$ continuously, Short-term fluctuations $-15\% \sim +10\%$; Voltage imbalance rate $< 3\%$, Distortion rate meets IEC61800-2 requirements
Rated frequency (Hz)	50/60Hz, Fluctuation range $\pm 5\%$
Output voltage (V)	Rated input condition output Three-phase, 0~Rated input voltage, error less than $\pm 3\%$
Output frequency (Hz)	0.00 ~ 200.0Hz, The minimum unit is 0.01Hz
Overload capacity	150% rated current for 1min, 200% rated current for 0.5s
Operational control characteristic	
Control mode	High performance flux vector control
Maximum output frequency	200.0Hz (The maximum output frequency 2000.00Hz shall be realized by non-standard software)
Speed range	1: 100
Product function	
Key function	Multi-speed operation, a variety of acceleration and deceleration time switching, self-setting, slip compensation, fan speed control, frequency hopping operation, energy saving operation, PID regulation (sleep function), Instantaneous power failure without stopping, MODBUS communication, fieldbus communication, droop control, automatic restart function, DC braking, energy consumption braking, Simple PLC, crawling function.
Fundamental frequency	0.1Hz~2000.0Hz
Starting frequency	0.0Hz~60.0Hz
Acceleration and Deceleration time	0.1~3600.0, Unit optional: 0.1s, s, min
Energy consumption braking capacity	Models of 18.5kW and below have built-in braking unit as standard, 22kW ~ 75kW can be customized non-standard built-in braking unit, braking rate 0.0 ~ 100.0%
DC braking capability	Starting frequency: 0.00Hz ~ 60.00Hz; Braking time: 0.1s ~ 30.0s; Braking current: 0% ~ 100% (Nominal according to rated current of Inverter)
Protection function	
Overcurrent, overvoltage, undervoltage, input/output phase loss, overheat, overload protection, etc.	
Other	
Efficiency	7.5kW and below $\geq 93\%$; 45kW and below $\geq 95\%$; 55kW or above $\geq 98\%$
Installation mode	Wall mounted
Protection level	IP20
Cooling mode	Air cooling

Environment	
Application place	Indoor, free from direct sunlight, corrosive gas, flammable gas, oil mist, water vapor, dripping water or salt etc.
Altitude	Less than 1000 meters (for derating over 1000 meters, 1% derating for each rise of 100 meters)
Ambient temperature	$-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$ (If the ambient temperature is between $40^{\circ}\text{C} \sim 50^{\circ}\text{C}$, please reduce the amount)
Humidity	5%~95%RH, no condensation of water beads
Vibration	Less than 5.9 m/s ² (0.6g)
Storage temperature	$-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$

MEGMEET Industrial Automation Products and Solutions

