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**ADA** Ambition · Dream · Achievement



**ADA** Focus on AC - DC - AC Technology  
SHENZHEN ADA POWER ELECTRONICS CO., LIMITED

**Head Office**

Address: Fenda Industrial Park, Xixiang, Baoan District, Shenzhen, China  
Web: [www.variable-frequencydrives.com](http://www.variable-frequencydrives.com)  
E-mail: [ada@variable-frequencydrives.com](mailto:ada@variable-frequencydrives.com)  
Tel: +86 139-2377-7654

**Dubai Branch**

Web: [www.ada-uae.com](http://www.ada-uae.com)  
E-mail: [dubai@variable-frequencydrives.com](mailto:dubai@variable-frequencydrives.com)

V2.0

# PRODUCTS CATALOGUE

SHENZHEN ADA POWER ELECTRONICS CO., LIMITED

## Company Profile

Shenzhen Ada Power Electronics Co. Limited which integrates research, production and sales as a whole, is a professional manufacturer of the inverter and solar pump inverter. Our products are exported to more than 60 countries all over the world. Our advantage is reflected in the high quality and the competitive price.

The company holds the business philosophy that "Quality Refers to Strength, Details Reach to Success", and tries its best to do well at every aspect.

Meanwhile, we welcome the OEM, ODM, SKD order as well.

We have made great efforts to focus our attention on the needs of customers, provide them competitive solutions and services. Our ultimate goal is to create the maximum profit for our customers and make contributions to the world's electrical automation industry.

Finally, you are welcome to be our distributor and partner.



## Quality First



**Manufacture based on world-class components**



# ADA

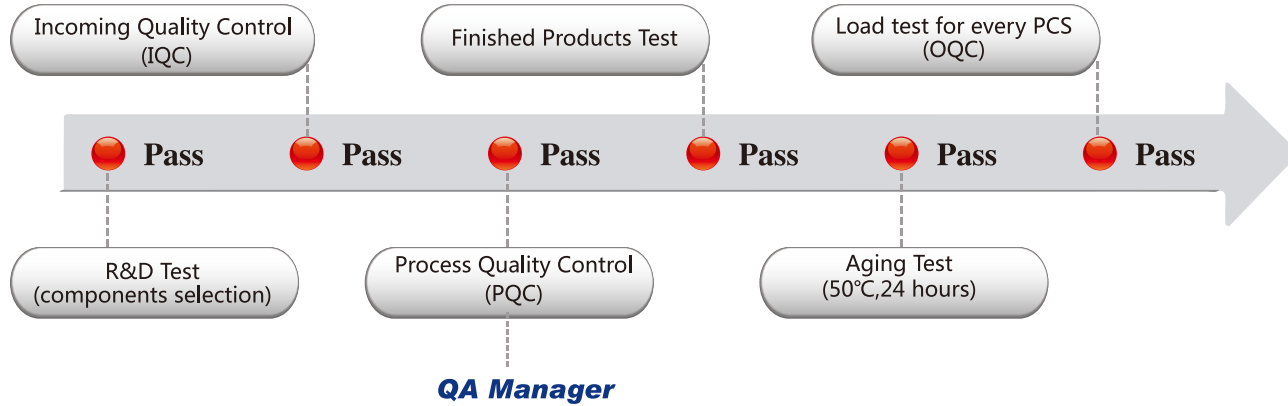
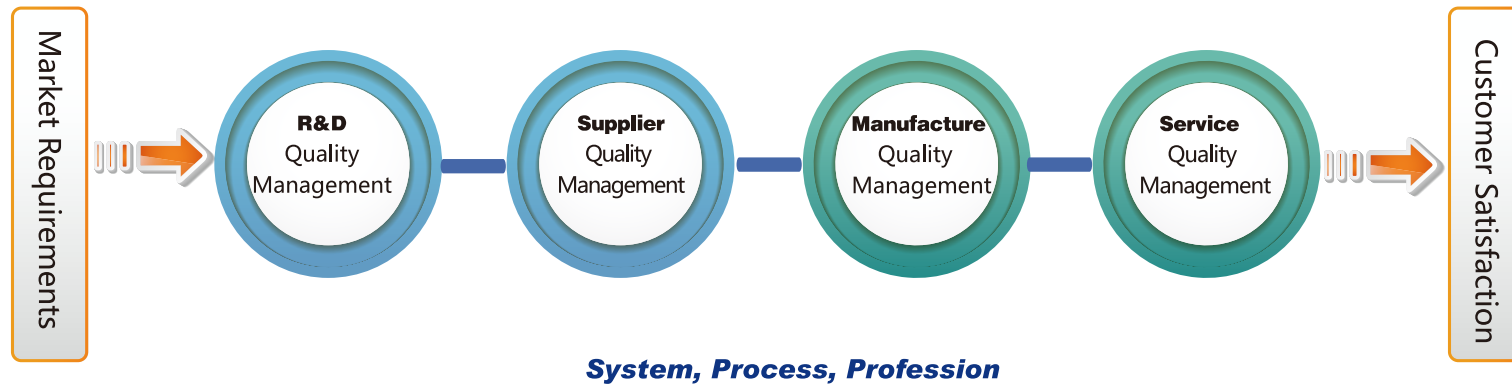
 Quality First

**Experienced R&D team**

- ★ Come from core team of world's top five hundred company
- ★ Ten years of AC-DC-AC control technology experiences
- ★ Accumulate plenty of experiences for variable applications
- ★ Strong ability of customized products design
- ★ Market-oriented developing



## TQM - Total Quality Management



## AC drives

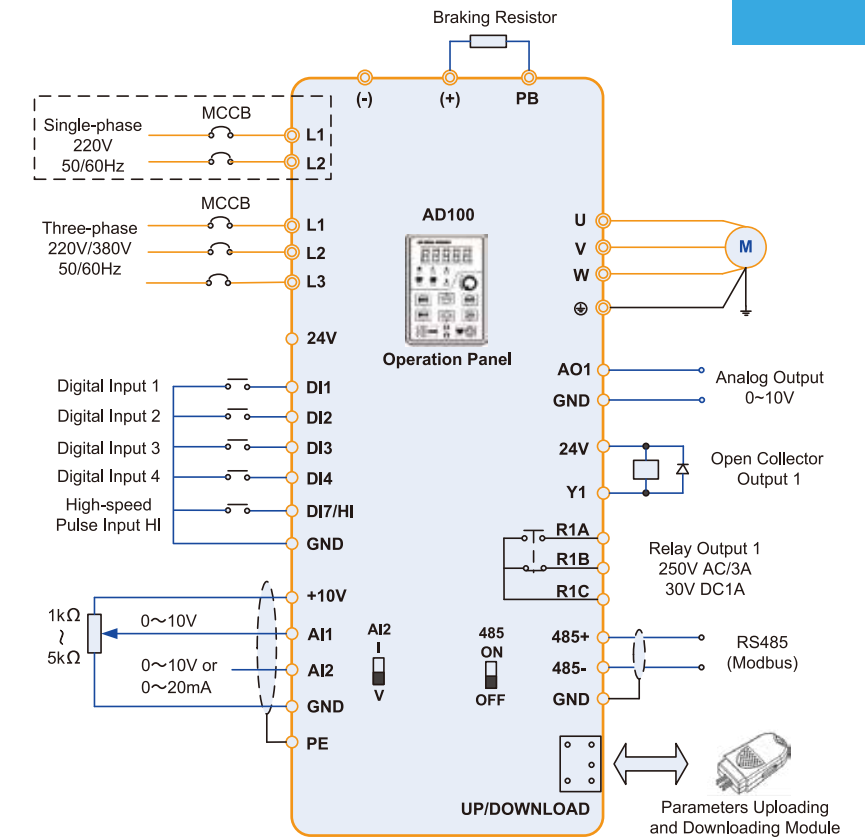
### AD100



Compact structure  
Easy installation  
Sensorless vector control (SVC) + V/f  
Single-phase 220V output is available

1AC 220~240V / 0.2~2.2kW  
3AC 220~240V / 0.2~2.2kW  
3AC 380~480V / 0.75~4.0 kW

### Typical Wiring



★ Profibus communication card is optional.

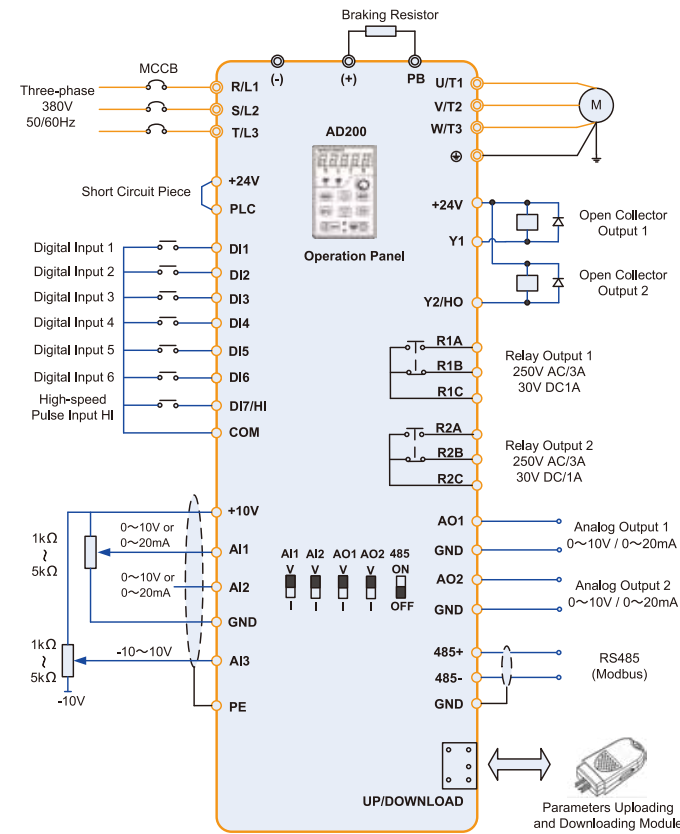
## AD200



Robust design  
Wide range of options  
Sensorless vector control (SVC) + V/f  
Customized quick setting  
Focus on high-end applications

3AC 380~480V / 0.75~710 kW

## Typical Wiring



★ Profibus communication card is optional

## Optimized System Solution



**EMC Filter**

Full range built-in  
C3 grade EMC filter  
Reduce interferences  
& increase power quality



**Parameters upload & download module**

Portable design  
Parameters transmit easily



**DC Reactor**

90kW and above built in  
Increase power factor



**Customized quick setting**

Commonly used parameters  
can be put in one group;  
Customized quick setting



**Braking Unit**

Up to 30kW built in  
(Normally up to 15kW)  
Self-protection for fast stop



**Customized design**

Customized designing and  
manufacturing for your special  
functions requirements

## Specification

### Input & Output

Input voltage	1AC 220~240V (-15%~+30%) 3AC 220~240V (-15%~+30%) 3AC 380~480V (-15%~+30%)
Input frequency	50Hz/60Hz ± 5%
Output voltage	0~input voltage, deviation<±3%
Output frequency	0~600Hz

### Input terminals

Input terminal	<b>AD100</b> 5 channels of digital inputs (one channel is optional for high-speed pulse input) 2 channels of analog inputs AI1 & AI2: optional for 0~10V / 0~20mA
	<b>AD200</b> 7 channels of digital input (one channel is optional for high-speed pulse input) 3 channels of analog inputs AI1 & AI2: optional for 0~10V / 0~20mA AI3: -10V~10V

### Featured functions

Featured functions	Parameter copy, parameter backup Flexible parameter display Reliable speed tracking-start Timing control, fixed length control, etc. Over excitation brake PID control Simple PLC, 16-steps speed control Multi-functional programmable keypad V/f separated control
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### Output terminals

Output terminal	<b>AD100</b> 1 channel of open collector output (compatible with 100kHz pulse output) 1 channel of relay output 1 channel of analog output AO1: 0~10V
	<b>AD200</b> 2 channels of open collector output (compatible with 100kHz pulse output) 2 channels of relay output 2 channels of analog output AO1 & AO2: optional for 0~10V / 0~20mA

### Control Characteristics

Control mode	V/f control Sensor-less vector control 1 (SVC1) Sensor-less vector control 2 (SVC2)
Speed accuracy	±0.5% (V/f) ±0.2% (SVC1 & 2)
Speed fluctuation	±0.3% (SVC1 & 2)
Torque response	< 10ms (SVC1 & 2)
Starting torque	0.5Hz: 180% (V/f, SVC1) 0.25Hz: 180% (SVC2)
Overload capability	<b>G Model:</b> 150% Rated Current 60s, 180% Rated Current 10s, 200% Rated Current 1s. <b>P Model:</b> 120% Rated Current 60s, 145% Rated Current 10s, 160% Rated Current 1s.
Simple PLC, Multi-step speed	16 steps speed External digital signal control Internal clock
PID function	Standard build-in
Communication	Modbus, Profibus
AVR function	Automatic Voltage Adjustment (When the grid voltage changes, maintain a constant output voltage automatically)

### Environment requirements

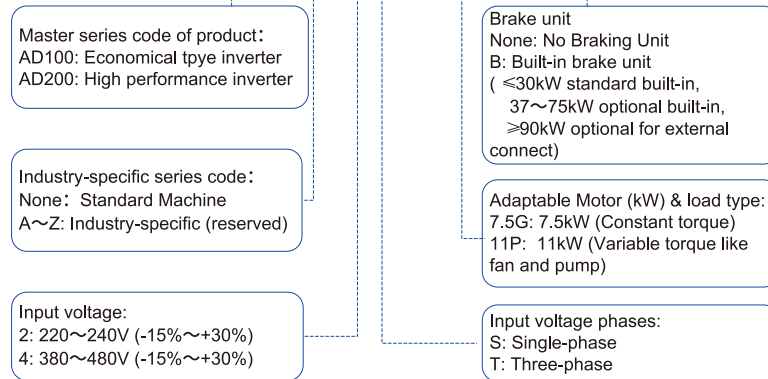
Installation location	Without direct sunlight, free from dust, corrosive gases, oil mist, flammable gases, water vapor, water drop and salt, etc.
Altitude	0~2000m Derated 1% for every 100m when the altitude is above 1000 meters
Ambient temperature	-10°C~50°C Derated 4% for each 1°C while the temperature is higher than 40°C
Storage temperature	-20°C~+70°C
Relative humidity	5~95%, no condensation

### Others

Protection functions	Provide more than 30 protection functions like Overcurrent, Overvoltage, Under voltage, Over temperature, Overload Etc.
Installation types	Wall mounting Wall-through mounting Floor mounting
IP grade	IP20
Cooling method	Fan cooling

## Model Description

### AD200□-4T-7.5G/11PB



### Single-Phase 220~240V input

Model No.	Rated Output Power	Rated Input Current	Rated Output Current	Outline Dimension
	(kW)	(A)	(A)	W*H*D (mm)
AD100-2S-0.2B	0.2	4.9	1.6	95*162*120
AD100-2S-0.4B	0.4	6.5	2.5	
AD100-2S-0.7B	0.75	9.3	4.2	110*173*135
AD100-2S-1.5B	1.5	15.7	7.5	
AD100-2S-2.2B	2.2	24	9.5	

### Three-Phase 220~240V input

Model No.	Rated Output Power	Rated Input Current	Rated Output Current	Outline Dimension
	(kW)	(A)	(A)	W*H*D (mm)
AD100-2T-0.2B	0.2	1.9	1.6	95*162*120
AD100-2T-0.4B	0.4	2.7	2.5	
AD100-2T-0.7B	0.75	4.9	4.2	110*173*135
AD100-2T-1.5B	1.5	9.0	7.5	
AD100-2T-2.2B	2.2	11	9.5	

★ Single-phase 220V output is available for AD100

### Three-Phase 380~480V input

Model No.	Rated Output Power	Rated Input Current	Rated Output Current	Outline Dimension
	(kW)	(A)	(A)	W*H*D (mm)
AD200-4T-0.7G/1.5PB	0.75/1.5	3.4	2.5	117*187*160
AD200-4T-1.5G/2.2PB	1.5/2.2	5.0	4.2	
AD200-4T-2.2G/4.0PB	2.2/4.0	5.8	5.5	146*249*177
AD200-4T-4.0G/5.5PB	4.0/5.5	11	9.5	
AD200-4T-5.5G/7.5PB	5.5/7.5	14.6	13	
AD200-4T-7.5G/011PB	7.5/11	20.5	17	198*300*185
AD200-4T-011G/015PB	11/15	26	25	
AD200-4T-015G/018PB	15/18.5	35	32	255*459*220
AD200-4T-018G/022PB	18.5/22	38.5	37	
AD200-4T-022G/030PB	22/30	46.5	45	
AD200-4T-030G/037PB	30/37	62	60	270*590*260
AD200-4T-037G/045P	37/45	76	75	
AD200-4T-037G/045PB				
AD200-4T-045G/055P	45/55	92	91	357*590*260
AD200-4T-045G/055PB				
AD200-4T-055G/075P	55/75	113	112	
AD200-4T-055G/075PB	75/90	157	150	
AD200-4T-075G/090P				
AD200-4T-075G/090PB				

Model No.	Rated output power	Rated Input Current	Rated Output Current	Outline Dimension
	(kW)	(A)	(A)	W*H*D (mm)
AD200-4T-090G/110P	90/110	160★	176	430*829.5*293
AD200-4T-110G/132P	110/132	190★	210	
AD200-4T-132G/160P	132/160	232★	253	500*1107*328
AD200-4T-160G/185P	160/185	282★	304	
AD200-4T-185G/200P	185/200	326★	350	
AD200-4T-200G/220P	200/220	352★	377	660*1160*340
AD200-4T-220G/250P	220/250	385★	426	
AD200-4T-250G/280P	250/280	437★	470	810*1540*400
AD200-4T-280G/315P	280/315	491★	520	
AD200-4T-315G/355P	315/355	580★	600	1200*1900*480
AD200-4T-355G/400P	355/400	624★	650	
AD200-4T-400G/450P	400/450	690★	725	
AD200-4T-450G/500P	450/500	765★	800	1200*1900*480
AD200-4T-500G/560P	500/560	835★	860	
AD200-4T-560G/630P	560/630	960★	990	
AD200-4T-630G/710P	630/710	1050★	1100	

★ Means AD200-4T-90G/110P or above is provided with an external-mounted DC reactor in shipment as default

## Model Selection

### Three-Phase 380~480V input

Model No.	Rated Output Power	Rated Input Current	Rated Output Current	Outline Dimension
	(kW)	(A)	(A)	W*H*D (mm)
AD100-4T-0.7B	0.75	3.4	2.5	110*173*135
AD100-4T-1.5B	1.5	5.0	4.2	
AD100-4T-2.2B	2.2	5.8	5.5	
AD100-4T-4.0B	4.0	11	9.5	

**Typical Applications**



Textile



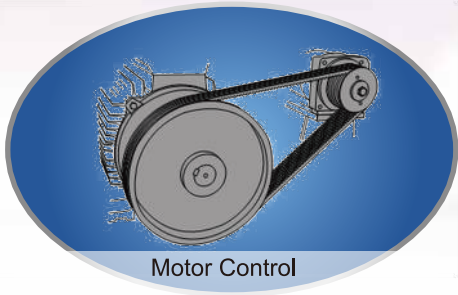
industrial washing machine



Paper Making System



HVAC Air Compressor



Motor Control



Printing & Dyeing



Machine Tool



Wood Machine



Water pump

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