About MIC

SHENZHEN MIC ELECTRIC CO., LTD is a national high-tech enterprise, which specializes in R&D, manufacture, sale and service of solar pump inverters, hybrid solar inverters. The headquarter of MIC located in Guangming district, Shenzhen, China.

MIC is a leading brand of solar pump inverter. The products cover single phase output 220V, three phase output 220V and three phase output 380V, which are widely used in agricultural irrigation, livestocck drinking water, daily water supply and desert management.

With “ Market-oriented, Customer-certric” business philosophy, MIC provide high cost performance products and services to customers. The sales and service network covers more than 60 countries around the world.

MIC adheres to the enterprise core value of “ Quality, Innovation, Integrity, Win-Win”, dedicated to be one of the top brand of solar pump inverter in the world.

agricultural irrigaion

desert management

daily water supply

livestocck drinking water

Factory Overview

MIC factory is located in Guangming District, Shenzhen City. The factory covers an area of 8,000 square meters and has advanced production and testing equipment. The factory currently has more than 200 employees, including more than 30 professional R&D engineers.

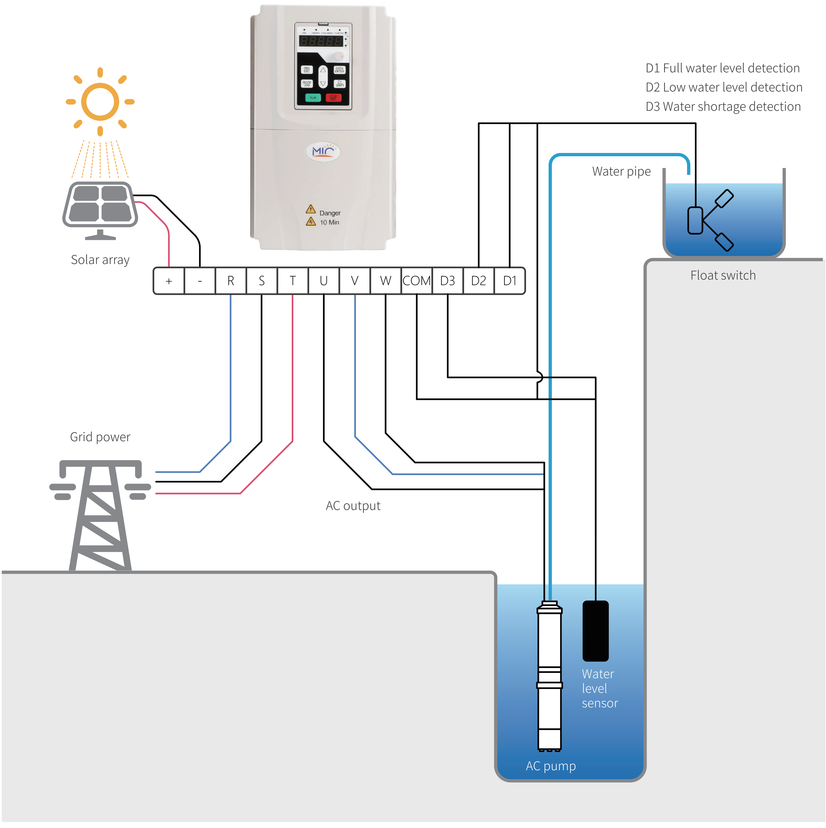
Factory Area
8000m²

Employee
200+

R&D engineers
30+

SHENZHEN MIC ELECTRIC CO., LTD

Solar Pump System



System feature

The system automatically starts in the morning and stops in the evening. It can run perfectly whenever there is sunshine, with no need of back-up battery.
Compatible with all types of solar panels and AC pumps (such as self-priming pump, submersible pump, deep-well pump and surface pump)
Good performance even in cloudy weather.
Remote monitoring for real time operation status and switching on/off by GPRS
Quipped with perfect protection, requires no man to be on duty, runs fully automatically

ZX300A-01 Series

Solar Pump Inverter

Technical Index	Specification	
	220V inverter	380V inverter
Input DC Voltage	200~450V	300~900V
Max Input DC Voltage	450V	900V
MPPT Voltage (Vmp)	160~380V	270~750V
Recommended MPPT Voltage (Vmp)	320V	550V
MPPT Efficiency	99.9%	99.9%
Input AC Voltage	1AC/3AC 220/230/240V	3AC 380/400/415/440V
Output AC Voltage	1AC/3AC 0~220/230/240V	3AC 0~380/400/415/440V
Output Frequency	0~300Hz	0~300Hz
IP Level	IP20	IP20

Model	Motor		Rated Output Current (A)	Suggested Open Circut Voltage (V)
	KW	HP		
Single Phase Output 220V				
ZX300A-01-04-0R4G-S2	0.4	0.5	4	350~400
ZX300A-01-04-0R7G-S2	0.75	1	7	350~400
ZX300A-01-04-1R5G-S2	1.5	2	9.6	350~400
ZX300A-01-04-2R2G-S2	2.2	3	15	350~400
ZX300A-01-04-004G-S2	4	5	23	350~400
ZX300A-01-04-5R5G-S2	5.5	7.5	32	350~400
Three Phase Output 220V				
ZX300A-01-0R4G-S2	0.4	0.5	2.3	350~400
ZX300A-01-0R7G-S2	0.75	1	4	350~400
ZX300A-01-1R5G-S2	1.5	2	7	350~400
ZX300A-01-2R2G-S2	2.2	3	9	350~400
ZX300A-01-004G-S2	4	5	17	350~400
ZX300A-01-5R5G-S2	5.5	7.5	25	350~400
ZX300A-01-7R5G-S2	7.5	10	32	350~400
ZX300A-01-011G-S2	11	15	45	350~400

Three Phase Output 380V				
ZX300A-01-0R7G-T4	0.75	1	2.1	625~750
ZX300A-01-1R5G-T4	1.5	2	3.8	625~750
ZX300A-01-2R2G-T4	2.2	3	6.0	625~750
ZX300A-01-004G-T4	4.0	5	9	625~750
ZX300A-01-5R5G-T4	5.5	7.5	13	625~750
ZX300A-01-7R5G-T4	7.5	10	17	625~750
ZX300A-01-011G-T4	11	15	25	625~750
ZX300A-01-015G-T4	15	20	32	625~750
ZX300A-01-018G-T4	18.5	25	37	625~750
ZX300A-01-022G-T4	22	30	45	625~750
ZX300A-01-030G-T4	30	40	60	625~750
ZX300A-01-037G-T4	37	50	75	625~750
ZX300A-01-045G-T4	45	60	90	625~750
ZX300A-01-055G-T4	55	75	110	625~750
ZX300A-01-075G-T4	75	100	150	625~750
ZX300A-01-090G-T4	90	125	176	625~750
ZX300A-01-110G-T4	110	150	210	625~750
ZX300A-01-132G-T4	132	175	253	625~750
ZX300A-01-160G-T4	160	210	304	625~750
ZX300A-01-185G-T4	185	250	340	625~750
ZX300A-01-200G-T4	200	260	377	625~750

Product Feature

Flexibility

Suitable for all kinds of pumps, including single phase 220V pump
Compatible with all popular solar panels
Support AC input, could switch to grid power supply to make system work 24 hours

Smartness

Built-in MPPT technology with up to 99% efficiency
With water level detection function, automatically regulate the pump flow to prevent dryrunning, full water level, etc
Self-adaptation to the motor’ s power rating

High Cost-effectiveness

Plug-and-play system design, no need to set any parameter
Wide range of input voltage
No need battery, suitable for all kinds of applications
Easy installation and effortless maintenance

Reliability

10-year market proven experience of leading motor and pump drive technology
Soft start feature to prevent water hammer and increase system life
Built-in overvoltage, overload, undervoltage and weak sunshine protection

Remote Monitoring

Optional GPRS module for remote monitoring
Spots value of solar pump parameters monitoring available from anywhere
Support the lookup of the history parameters of solar pump system

Application Cases

Case studies from different countries and regions

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