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SMART PUMP DRIVE

Building E-Energy Management Solution Provider



National High-tech Enterprise

Building E-Energy Management Solution Provider

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- ◆ PDM20 Series Traditional Domestic Water Supply Controller
- ◆ E-Water Monitoring Platform of IoT



NATIONAL HIGH-TECH ENTERPRISE

COMPANY PROFILE



 **500+**
Employees

 **100+**
Countries

 **100+**
R&D Staffs

 **2000000+**
Motor Drives and
Control Solutions
Provided Globally

Guangzhou Sanjing Electric Co., Ltd (hereinafter referred to as SAJ) was established in 2005, with a registered capital of 50.4 million RMB, SAJ has a strong Research & Development and technical service team. SAJ provides professional general purpose AC drives, smart pump drives and solar pumping system.

SAJ has been awarded as National High-tech Enterprise, Intertek "Authorized Satellite Lab", Guangzhou "Little Giant" Enterprise of Science & Technology, Guangdong Solar Inverter Engineering & Technology Research Center, the 1st TÜV Rhein WMT Lab Qualification Certificate and so on. So far, the company has been authorized 22 invention patents, 59 utility model patents, 17 exterior design patents, 42 software copyrights and 6 software products with registrations.

With the strategy of local service network, SAJ has more than 20 branch offices and over 80 service centers in China, and its overseas service center has expanded all over the world. With the superior quality and comprehensive service network, SAJ has successfully applied 2 million sets of products around the world.



PDG10

INDUSTRIAL WATER SUPPLY CONTROLLER

Power Range

Single Phase 220V: 0.75-2.2kW

Three Phase 380V: 0.75-400kW

Applications

- ◆ Water Supply for Residential District
- ◆ Water Supply for Villa
- ◆ Hot water pressurization for Hotel
- ◆ Industrial Equipment Pressurization
- ◆ Water Supply in Construction Site

SAJ
NATIONAL HIGH-TECH ENTERPRISE



All-rounder for Pump Room Smart Variable Frequency Control

PDG10 is a professional smart pump drive. It is special designed according to the control logic and application functions of water supply industry. This cabinet-mounted smart pump drive is leading the market with its advanced PID control algorithm, stable and outstanding performance, strong expansibility and complete functions.

Special Functions

Standard dual RS485 communication
Multi-pump control and host computer monitoring at same time
Standard dual relay,
Two Driven by One Alternate Control Case

Reliable Performance

Independent air duct design, Standard temperature rise design,
Ensure long-term reliable working
Branded core components, Advanced technology solutions,
Standout quality with professional QC

Perfect Protection

Overcurrent, overvoltage, overheating, short circuit protection;
High/low water pressure protection, dry run and motor idling protection, antifreeze protection, reset function after water shortage.

PDH30

COMMERCIAL WATER SUPPLY CONTROLLER

Power Range

Three Phase 380V: 0.75-18.5kW

Applications

- ◆ Water Supply for Residential District
- ◆ Water Supply for Villa
- ◆ Hotel Hot Water Pressurization
- ◆ Industrial Equipment Pressurization
- ◆ Water Supply in Construction Site



THE LEADER OF FULL VARIABLE FREQUENCY CONTROL FOR CONSTANT WATER PRESSURE SUPPLY

PDH30 series intelligent water pump drive is high-end performance products for backpack installation; the product body has a protection level of IP54 and is suitable for complex applications. The product adopts the latest TI series main control chip and integrates permanent magnet synchronous and asynchronous control. The control algorithm is more optimized. The product has standard dual-channel communication, multi-pump linked function, constant pressure water supply mode and frequency manually adjustment mode, etc.



Special Functions

The design of integrated permanent magnet synchronous and asynchronous control, optimized PID algorithm makes the output more stable and the pump runs quieter; PDH30 has standard dual-way communication interface, local multi-pump link, the upper computer can be connected to the touch screen or 4G monitoring module.

Humanized Design

Backpack fit installation, flat appearance design, junction box installation, more humanized; Three-way power supply for sensor, dual way analog input, 2 digital input.

Perfect Protection

Overcurrent, overvoltage, overheating, short circuit protection; High/low water pressure protection, dry run and motor idling protection, antifreeze protection, reset function after water shortage.

**SMALLER AND LEANER,
MORE STYLISH**

PDM30 series intelligent water pump drive is defined as a small helper for domestic water supply. PDM30 has household appliances appearance design style, compact size; backpack installation, dustproof & waterproof, small-pump frequency conversion control, extended connection, complete functions, reliable and stable performance.



Enhanced Performance

Optimizing the current sampling plan and strengthening the PID algorithm to make the output waveform more stable and the running sound quieter; the water pump drive is equipped with RS485 interface, making the small-pump control able to achieve multi-pump link functions

Humanized Design

Backpack mounted on the water pump, integrated design, waterproof & dustproof, curved surface design, the appearance more fitted; Adjustable voltage of sensor power supply, both current and voltage analog input, 2 ways digital input.

Perfect Protection

Function of constant water pressure, automatic start function when powered on, high& low pressure alarm, antifreeze, water leakage and water shortage protection.

PDM30

DOMESTIC WATER SUPPLY CONTROLLER

Power Range

Single phase 220V: 0.75-2.2kW

Applications

- ◆ Water Supply for Residential District
- ◆ Water Supply for Villa
- ◆ Hotel hot water Pressurization
- ◆ Industrial Equipment Pressurization
- ◆ Water Supply in Construction Site



PDS33

SOLAR PUMP CONTROLLER

Power Range

275-380VDC: 2.2kW
500-750VDC: 2.2-110kW

Applications

- ◆ Mountain Area Portable Water Supply
- ◆ Commercial Agricultural Irrigation
- ◆ Desert Afforestation
- ◆ Farm Water Supply



LET THE "SUN" BE THE PORTER OF WATER

PDS33 solar pump controller is a device that takes in DC power from the PV arrays to drive the water pump with MPPT algorithm, ensuring the maximum conversion efficiency and output of the PV module. It aims to provide water supply solutions for areas with water scarcity and no electricity or unreliable electricity supply.



Smart and Reliable

Self-adaptive MPPT algorithm with efficiency up to 99%

Built-in smart IGBT module with overvoltage, overload, overheat and dry run protection.

Cost-Effective

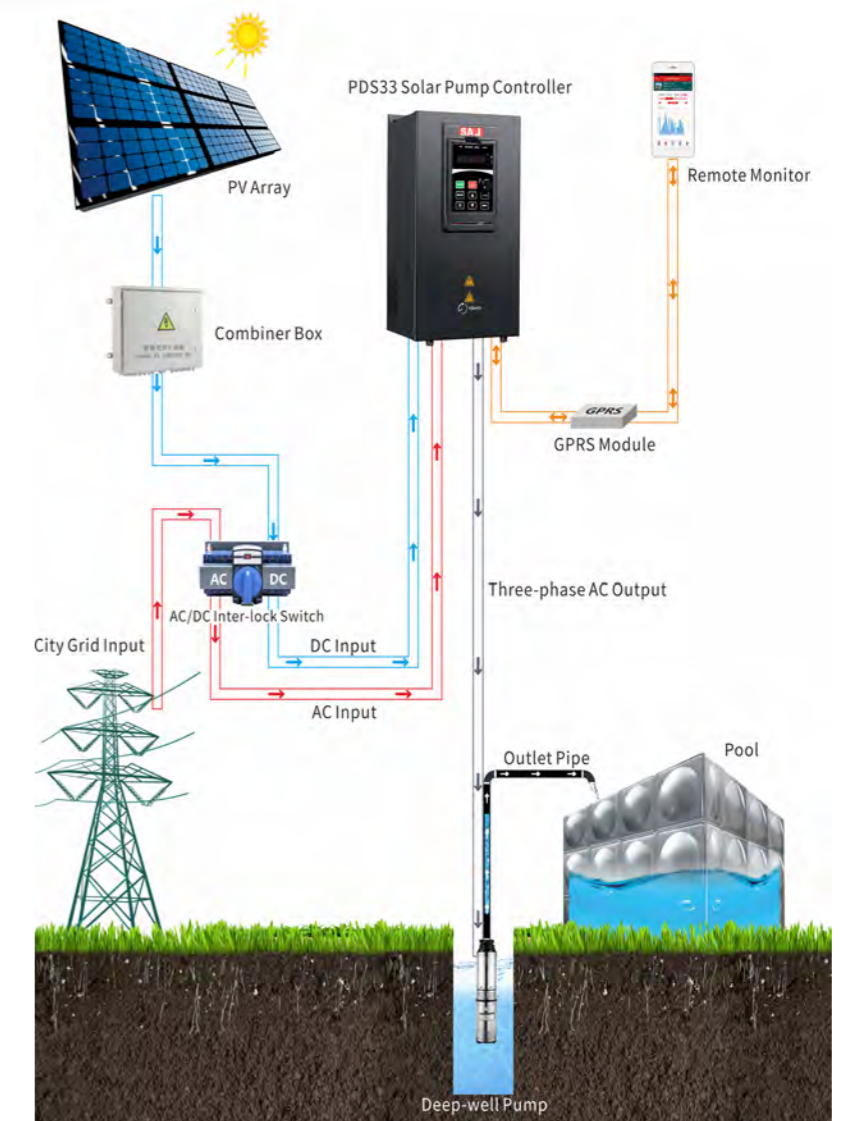
Plug-and-play design, built-in pump protection functions;

Battery-free design for various application scenarios, easy maintenance.

Remote Monitoring

Standard RS-485 interface, optional GPRS module for remote monitoring;

Doing remote debug and operating in anytime anywhere.



**OPTIMAL ONLINE MONITORING,
TIMING PROGRAM SETTINGS**

PD20 series intelligent water pump drive, has IP65 protection level, waterproof and dustproof, can be directly installed on various brands of water pump motor junction box, compatible with a variety types of sensor, system operation is simple, reliable, low noise, superior performance, can expand RS485 for PC monitoring, independent RTC function for time-segmented water supply, easy to do multi-pump intelligent operation.

PD20

TRADITIONAL MULTIPUMP CONTROLLER

Power Range

Single phase 220V

Three Phase 380V 0.75-18.5kW

Applications

- ◆ Water Supply for Residential District
- ◆ Water Supply for Villa
- ◆ Hotel Hot Water Pressurization
- ◆ Industrial Equipment Pressurization
- ◆ Water Supply in Construction Site



Ultra High Protection Level

Excellent dustproof and waterproof
Meticulous combination,
light and stable

Humanized Design

Expandable dual RS485,
suitable for multi pump
system and upper
monitoring , dual sensor
power supply, dual
analog input, multiple
interface.

Perfect Protection

Overcurrent, overvoltage,
overheating, short circuit protection;
High/low water pressure protection,
water shortage and motor idling
protection, antifreeze protection,
reset function after water shortage.



PDM20

TRADITIONAL DOMESTIC WATER SUPPLY CONTROLLER

Power Range

single-phase 220V: 0.75-2.2kW

Applications

- ◆ Domestic Water Pressurization
- ◆ Villa water supply
- ◆ Pressurization of water purification equipment
- ◆ Plant Irrigation Pressurization
- ◆ Solar water heater pressurization



SINGLE PUMP WITH CONSTANT PRESSURE

PDM 20 series products: suitable for all kinds of small single pump water supply system; compact and exquisite, it's size only 45% compared with of the same products of other suppliers; IP65 protection level, dust and water proof; can be directly installed on the pump motor. Perfect single pump control function, easy operation, high reliability and excellent quality..

High Reliability More Trustworthy

IP65 protection level, Waterproof and dustproof; Unique cooling channel, making heat dissipation of the product excellent;

Dedicate Appearance Design

Streamlined surface design
Hidden fan design
More beautiful appearance

Strong applicability and perfect protection

Quick pressure setting
Quick parameter check
Pressurization, pressure stabilization, power on and restart automatically
Water shortage protection and automatic recovery

E-WATER

IoT Monitoring Platform



Real-time Monitoring



Intelligent Alarm



Remote Configuration



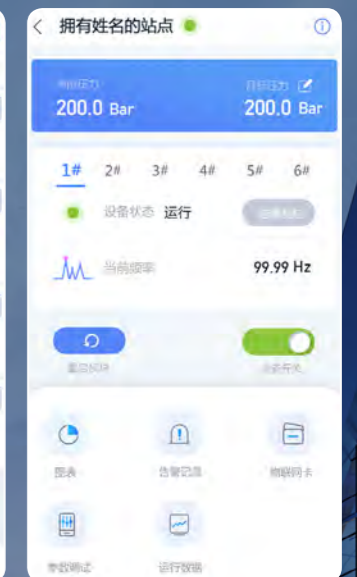
Device Management



Data Analysis



Intelligent Operation



Applications



Domestic Water Supply



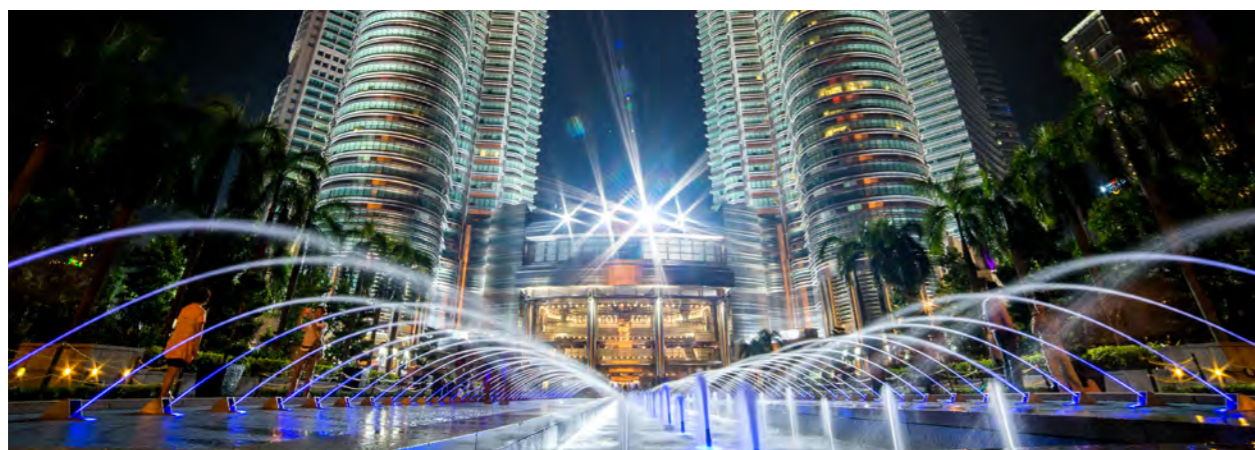
Water Supply for Villa



Hotel Water Supply



Industrial Equipment Pressurization



Commercial Facility Water Supply



Commercial Agricultural Irrigation



80+ Service Centers

24/7 Technical Service