

IF SUN IS AVAILABLE WITH YOU,

WE GIVE YOU THE WATER



SOLAR PUMP INVERTER



NIETZ

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NZE SOLAR PUMP INVERTER

It is special in features of modular design, small size, low temperature rise, low noise and reliable performance. It is for a solar water pumping system consists of three parts: pump, solar panel and inverter. It can be used for daily life (ground water), agricultural irrigation, forestation, desert control, pasture animal husbandry, water supply for islands and wastewater treatment.

Solar Programmable Controller transforms solar power from DC into AC to drive the pump. It can adjust the output power according to irradiation, to achieve maximum output power of solar panels.



- Provides water in areas without power grid
- Easy to install, operates automatically
- Low investment, low cost to use, and low maintenance
- Renewable, clean, and environmentally friendly



- Maximum power point tracking (MPPT) control mode, converts power from DC to AC with high efficiency: 98%, improving the use of solar energy
- Will handle a wide range of input voltages from 350V~700V
- Advanced Insulated Gate Bipolar Transistor (IGBT) is efficient, stable and safe
- Operates automatically: detects the water level, protects against running dry, restarts, and logs data
- Protects fully against lightning, over-voltage, under-voltage, over-current, and overload
- High degree of protection and highly stable system to suit harsh conditions
- Low noise level, low maintenance, long life cycle of over 10 year frequency range: 0-400Hz adjustable;

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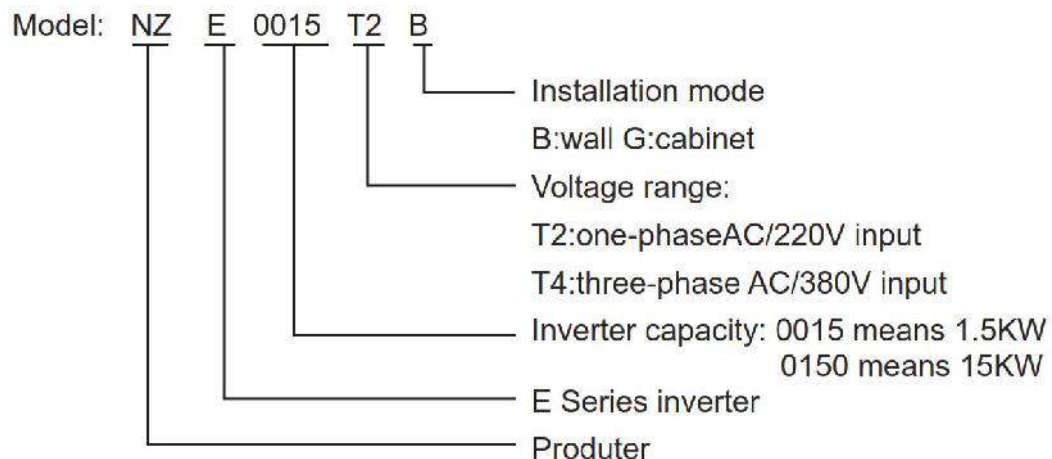
- Optimized SVPWM control technique brings stable output current waveform, strong ability to suppress current, and makes operation stable even under a wide range of load fluctuations;
- Perfect mute control, 16kHz adjustable on-line, and ensuring a reasonable torque output while effectively reduce noise and heat of the motor;
- Perfect motor protection function: Including protection function, soft start and soft stop function while overload, over-current, overvoltage, under-voltage, short circuit, etc.;
- Rich programmable input terminals and output terminals: Two programmable analog input ports, which can exchange with each other, combined with a wealth of software logic functions, can meet application requirements in different industry.
- Built-in universal above 110KW DC reactor brings high input power factor to reduce the interference of high- power machine to grid.
- Has a perfect software and hardware protection function...

• Nameplate illustration

The product's nameplate is located under lower right of the solar Programmable Controller, which contains the important information such as product series, voltage and power grade that'll provide important basis for product application, maintenance and after service.



• Type Description



- **Technical Specification**

HP (KW)	1 to 150 HP (0.75KW to 110 KW) Note: Can be developed up to 200 HP
DC Input Voltage	350 to 700 Vdc \pm 10%
AC Output Voltage	3PH 380 Vac \pm 10%
Output Current	3 to 210 Amp
Protective Method	IP 20 Enclosed Type
Output Frequency	1 to 400 Hz
Motor Type	Asynchronous (Induction) Motors and synchronous Motors
Cooling Method	Force Air Cooling Method
Harmonic Distortion	THD < 5%
Ambient Temperature	-10 to +60°C
Storage Temperature	-20 to +65°C
Relative Humidity	20% to 93%



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