

IST220

Low Voltage Variable Frequency Drive

Application for Solar Pump Controller



Product Features

- Maximizing power generation efficiency of solar modules with the use of advanced MPPT control technology.
- Adjusting water outflow of pumps quickly on basis of sunlight intensity change.
- Automatic hibernation and wakeup
 - (1)Hibernate at high water level and wake up at low water level.
 - (2)Hibernate at sunrise and sunset and wake up at strong sunlight.
- Underload protection and fault protection of water level sensor avoiding pumping off after water supply dries up.

Application

Mainly applied to industries of agriculture and forestry irrigation, desert control, grassland animal husbandry and municipal water.

Parameters

Item	Data
Max input DC voltage	800VDC
Recommended MPPT voltage range	350~750VDC
Recommended input voltage	513VDC
MPPT efficiency	99.9%
Input channel	1
Rated output voltage	3-phase 380VAC
Output frequency range	0~60Hz
Max efficiency of the machine	97%
Cooling method	Air cooling
Protection degree	IP20
Altitude	Below 1000m; above 1000m, derate 1% for every additional 100m.

Model	Adaptable Motor (kW)	Output Current (A)	Overload capacity (60s) A	Dimension(mm) W × H × D
1PH AC220V ± 15% 50/60Hz				
IST220S0.4G	0.4	2.5	3.75	72 × 142 × 146
IST220S0.7G	0.75	5	7.5	72 × 142 × 146
IST220S1.5G	1.5	7	10.5	72 × 142 × 146
IST220S2.2G	2.2	11	16.5	100 × 183 × 137.6
IST220S3.7G	3.7	16.5	24.75	100 × 183 × 137.6
3PH AC380V ± 15% 50/60Hz				
IST220T0.2G	0.2	0.8	1.2	72 × 142 × 146
IST220T0.4G	0.4	1.5	2.25	72 × 142 × 146
IST220T0.7G	0.75	2.7	4.05	72 × 142 × 146
IST220T1.5G	1.5	4	6	72 × 142 × 146
IST220T2.2G	2.2	5	7.5	72 × 142 × 146
IST220T3.7G/5.5P	3.7/5.5	8.6/12.5	12.9/15	100 × 183 × 137.6
IST220T5.5G	5.5	12.5	18.75	100 × 183 × 137.6
IST220T7.5P	7.5	17.5	21	130 × 260 × 178
IST220T7.5G/11P	7.5/11	17.5/24	26.5/28.8	130 × 260 × 178
IST220T11G/15P	11/15	24/33	36/39.6	130 × 260 × 178
IST220T15G/18.5P	15/18.5	33/40	49.5/48	195 × 280 × 175
IST220T18.5G/22P	18.5/22	40/47	60/56.4	195 × 280 × 175
IST220T22G/30P	22/30	47/65	70.5/78	195 × 280 × 175
IST220T30G/37P	30/37	60/75	90/90	235 × 415 × 190
IST220T37G	37	75	112.5	235 × 415 × 190



Shanghai ISTECH Electric Co., Ltd. is a high-tech enterprise belongs to CNC Electric Group. The headquarters is located in Shanghai, China. The acreage of manufacturing base covers 200 acres with construction area of 200000 square meters.

As a professional industrial electric supplier, ISTECH focuses on R&D, manufacture and sales of Variable Frequency Drive (VFD). With the pursuit of "green energy saving and customer value promotion", ISTECH committed to providing quality products and services to customers and always enjoy a good reputation on the global VFD market.