



**DSFP Intelligent Inverter Features
For AC/DC Submersible Borehole Pump**



Cost Saving

- Easy installation & Low installation cost
- Easy operation & Low maintenance cost
- High efficiency with **MPPT** function
- Save grid electricity

High Reliability

- Soft start to prevent water hammer and increase system life
- LCD screen showing running status
- Fault self diagnosis and display
- Multiple protection
- 2 Float switch available

4 Operation Mode

- Only DC mode
- Only AC mode
- Auto mode (Automatically switch to AC when DC power is poor)
- Hybrid mode (AC and DC Coordinate)

High Compatibility

- Compatible with both DC and AC motor(1-Phase & 3-Phase)
- Compatible with popular solar arrays
- Compatible with AC power of generator
- Active air cooling
- Can be used for cabinet installation

Technical Data

ITEMS	DSFP-110-0.75(G)	DSFP-150-1.1(G)	DSFP-150-1.3(G)	DSFP-200-1.3(G)	DSFP-200-1.5(G)	DSFP-300-2.2(G)	
Input Parameters							
DC Input Voltage	90-200V DC	90-300V DC	90-300V DC	150-380V DC	150-380V DC	200-430V DC	
MPPT Voltage Range	120-170V DC	160-280V DC	160-280V DC	210-320V DC	210-320V DC	310-365V DC	
AC Input Voltage	80-280V / 45-65Hz / 1 Phase						
DC Input Voltage At Hybrid Mode	DC>AC*1.5						
Max. Current	12 A	12 A	12 A	12 A	12 A	12 A	
Peak current	17 A	17 A	17 A	17 A	17 A	17 A	
Output Parameters							
Max. Output Power	DC Mode	1.1 kW	1.5 kW	1.5 kW	2.0 kW	2.0 kW	2.8 kW
	AC Mode	1.1 kW	1.5 kW	1.5 kW	2.0 kW	2.0 kW	2.2 kW
	Hybrid Mode	1.1 kW	1.5 kW	1.5 kW	2.0 kW	2.0 kW	2.2 kW
Rated Output Voltage	3-Phase, 90V-220V						
	1-Phase, 60V-220V						
Max. Current	12 A	12 A	12 A	12 A	12 A	12 A	
Rated Current	10 A	10 A	10 A	10 A	10 A	10 A	
Speed Range	500-4000 rpm						
Other Parameters							
Protect Functions	① Dry-Run Protection ② Over/Low Voltage Protection ③ Lighting Protection ④ Over/Short Circuit Protection ⑤ Surge Protection ⑥ Over Temperature Protection (Over Temperature Frequency Reduction) ⑦ Output Phase Lose Protection						
Other Functions	① AC/DC Complementary Mode ② Compatible with Synchronous & Asynchronous motor ③ Internal Temperature Display ④ Frequency Reduction Temperature Setting ⑤ Impeller Cleaning Function ⑥ Fault Record Query ⑦ Current Setting of Dry Running Protection ⑧ Float Switch Status Display ⑨ GPRS Remote Monitor Function Optional						
Enclosures Class	IP55						
Standby Power	< 5W						
Installation Method	Wall Mounted						
Package Info. (L*W*H)	365x275x165 mm						
Package Info. (GW)	3.7 kg						



**DSFP-V Intelligent Inverter Features
For AC/DC Submersible Borehole Pump**



Voltage boost function

Cost Saving

- Easy installation & Low installation cost
- Easy operation & Low maintenance cost
- High efficiency with **MPPT** function
- Save grid electricity

High Reliability

- Soft start to prevent water hammer and increase system life
- LCD screen showing running status
- Fault self diagnosis and display
- Multiple protection
- 2 Float switch available

4 Operation Mode

- Only DC mode
- Only AC mode
- Auto mode (Automatically switch to AC when DC power is poor)
- Hybrid mode (AC and DC Coordinate)

High Compatibility

- Compatible with both DC and AC motor(1-Phase & 3-Phase)
- Compatible with popular solar arrays
- Compatible with AC power of generator
- Active air cooling
- Can be used for cabinet installation
- Compatible with low input voltage

Technical Data

ITEMS	DSFP-V-110-0.75(G)	DSFP-V-150-1.1(G)	DSFP-V-150-1.3(G)	DSFP-V-200-1.3(G)	DSFP-V-200-1.5(G)	DSFP-V-300-2.2(G)	
Input Parameters							
DC Input Voltage	90-200V DC	90-300V DC	90-300V DC	90-380V DC	90-380V DC	120-430V DC	
MPPT Voltage Range	75-170V DC	75-260V DC	75-260V DC	80-320V DC	80-320V DC	100-365V DC	
AC Input Voltage	80-280V / 45-65Hz / 1 Phase						
DC Input Voltage At Hybrid Mode	DC>AC*1.5						
Max. Current	DC:20A / AC:15A	DC:20A / AC:15A	DC:20A / AC:15A	DC:20A / AC:15A	DC:20A / AC:15A	DC:20A / AC:15A	
Peak current	25 A	25 A	25 A	25 A	25 A	25 A	
Output Parameters							
Max. Output Power	DC Mode	1.1 kW	1.5 kW	1.5 kW	2.0 kW	2.0 kW	2.8 kW
	AC Mode	1.1 kW	1.5 kW	1.5 kW	2.0 kW	2.0 kW	2.2 kW
	Hybrid Mode	1.1 kW	1.5 kW	1.5 kW	2.0 kW	2.0 kW	2.2 kW
Rated Output Voltage	3-Phase, 90V-220V						
	1-Phase, 60V-220V						
Max. Current	12 A	12 A	12 A	12 A	12 A	12 A	
Rated Current	10 A	10 A	10 A	10 A	10 A	10 A	
Speed Range	500-4000 rpm						
Other Parameters							
Protect Functions	① Dry-run protection ② Over/Low voltage protection ③ Lighting protection ④ Over/short circuit protection ⑤ Surge protection ⑥ Over temperature protection (Over temperature frequency reduction) ⑦ Output phase lose protection						
Other Functions	① AC/DC Complementary Mode ② Compatible with Synchronous Asynchronous motor ③ Internal temperature display ④ Frequency reduction temperature setting ⑤ Impeller cleaning function ⑥ Fault record query ⑦ Current setting of dry running protection ⑧ Float switch status display ⑨ GPRS Remote monitor function optional						
Enclosures Class	IP55						
Standby Power	< 5W						
Installation Method	Wall Mounted						
Package Info. (L*W*H)	365x275x165 mm						
Package Info. (GW)	3.7 kg						