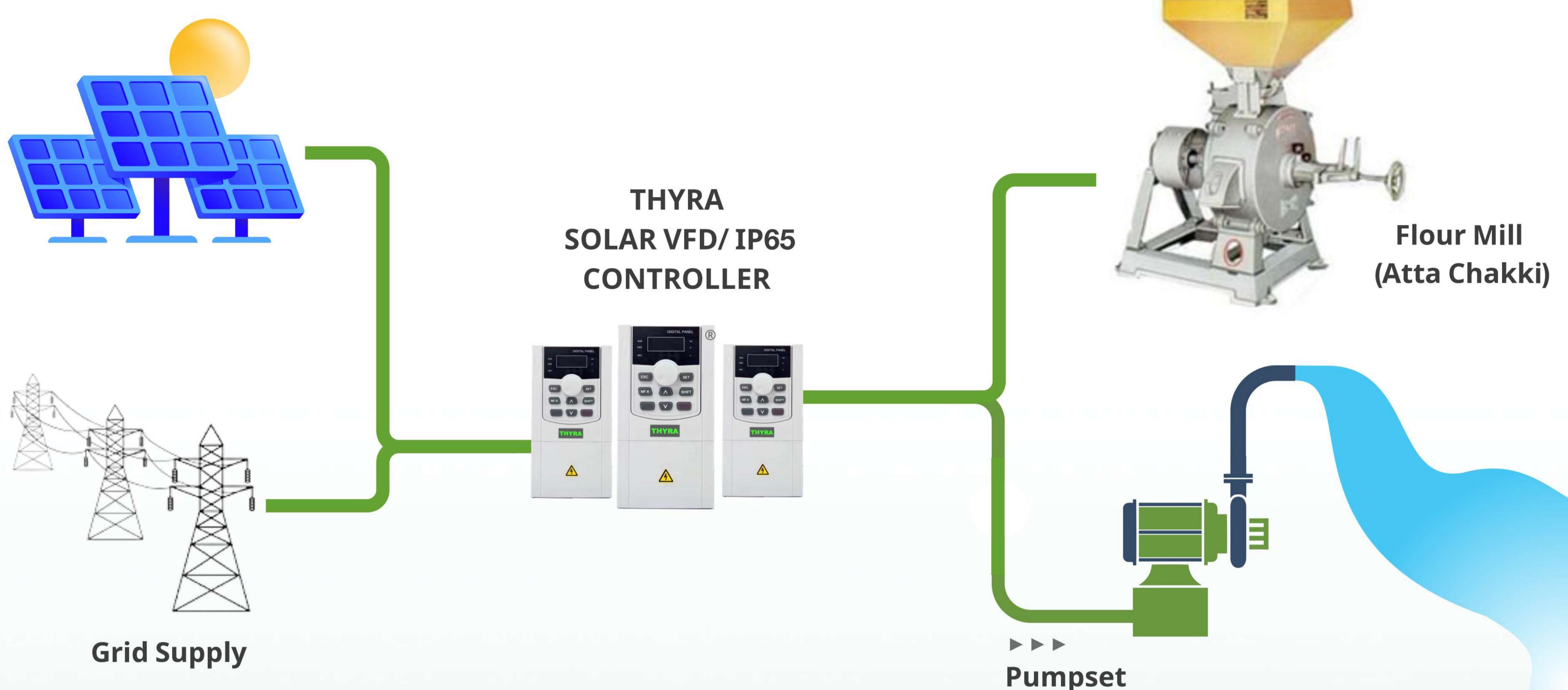


# THYRA SOLAR VFD

Farmer's Trusted Indian Brand



## Solar Panels



## Features

### ○ Fully Automatic ON/OFF

Operates on solar radiation, automatically gets ON when sun rises and OFF at sun set.

### ○ High MPPT Efficiency 99%

Maximum water discharge & minimum power loss.

### ○ Maintenance Free

Designed with long life components.

### ○ Wide operating voltage range

Provide more operating hours in a day, even operates in cloudy conditions.

### ○ Adaptable in varying climatic conditions

IP65 Enclosure, Suitable for outdoor installation.

### ○ User friendly interface

Just Plug & Play.

### ○ Remote Monitoring facility (Optional)

Parameters such as module voltage, current, power, energy generated, Pump RPM, ON and OFF can be done via remotely.

### ○ Inbuilt Protections

All types of protections are inbuilt such as Reverse polarity, Over Voltage, Low Voltage, Short circuit, Over current, Over Load, Dry Run, Phase loss, Etc.

## Applications

**Solar Pumping, Flour Mill, Expeller Machine, Cold storage, Fan, Pumps, Other Industrial machinery.**

# Technical Specifications

## MS20 Series Solar VFD

VFD MODEL	POWER		VFD Rated O/P Voltage(V)	VFD Rated Current (A)	Min DC Input Voltage (Vdc)	Max DC Input Voltage (Voc)	Output Frequency (Hz)
	Kw	HP					
MS20-2S-0.75	0.75	1	230Vac	5A	150V	450V	0-400HZ
MS20-2S-1.5	1.5	2	230Vac	8A	150V	450V	0-400HZ
MS20-2S-2.2	2.2	3	230Vac	10A	150V	450V	0-400HZ
MS20H-2S-2.2	2.2	3	230Vac	13A	150V	450V	0-400HZ
MS20-2S-4.0	4	5	230Vac	17A	180V	450V	0-400HZ
MS20-4T-4.0	4	5	415Vac	10A	230V	900V	0-400HZ
MS20H-4T-4.0	4	5	415Vac	13A	230V	900V	0-400HZ
MS20-4T-5.5	5.5	7.5	415Vac	13A	230V	900V	0-400HZ
MS20-4T-7.5	7.5	10	415Vac	17A	230V	900V	0-400HZ
MS20-4T-11	11	15	415Vac	25A	230V	900V	0-400HZ
MS20-4T-15	15	20	415Vac	30A	230V	900V	0-400HZ
MS20-4T-18	18	25	415Vac	37A	230V	900V	0-400HZ
MS20-4T-22	22	30	415Vac	45A	230V	900V	0-400HZ
MS20-4T-30	30	40	415Vac	60A	230V	800V	0-400HZ
MS20-4T-37	37	50	415Vac	75A	230V	800V	0-400HZ
MS20-4T-45	45	60	415Vac	90A	230V	800V	0-400HZ
MS20-4T-55	55	75	415Vac	110A	230V	800V	0-400HZ
MS20-4T-75	75	100	415Vac	150A	230V	800V	0-400HZ

## IP65 Solar Pump Controller

IP65 CONTROLLER MODEL	POWER		Rated O/P Voltage(V)	Rated Current (A)	Max DC Input Voltage (Voc)	Motor RPM	Output Frequency (Hz)
	Kw	HP					
MS65-2S-0.75	0.75	1	110Vac	10A	200Vdc	3600	0-120HZ
MS65-2S-1.5	1.5	2	130Vac	13A	440Vdc	3600	0-120HZ
MS65-2S-2.2	2.2	3	160Vac	14A	460Vdc	3600	0-120HZ
MS65-2S-4.0	4	5	260Vac	14A	460Vdc	3600	0-120HZ
MS65-4T-5.5	5.5	7.5	380Vac	16A	900Vdc	3600	0-120HZ
MS65-4T-7.5	7.5	10	440Vac	16A	900Vdc	3600	0-120HZ

# Product Features

Product Features			
		MS20	MS65
Basic characteristics	Input voltage and power(kW)	1Ph-AC 220V (DC 70-450V) 0.75~2.2kW 3Ph-AC 380V (DC 230-900V) 4.0~200kW	DC 450V(Max.): 2.2kW/4kw DC 900V(Max.): 5.5kW/7.5kW
	Recommended MPPT voltage range	-2S: 200~400V -4T: 300~750V	220V: 200~400V 380V: 300~750V
	Support motor type	AM, PMSM, BLDC	AM, PMSM, BLDC
	Control mode	VF/SVC	VF/SVC
	Overload capability	120% of rated current: 1 minute 150% of rated current: 10 seconds	120% of rated current: 1 minute 150% of rated current: 10 seconds
Structure characteristics	Installation	Wall mounting Rail mounting Flange mounting	Wall mounting
	Degrees of protection	IP20/IP54 cabinet	IP65
	Cooling method	Air Cooling	Natural Cooling
Hardware configuration characteristics	Analog input	2	-
	Digital input	2	-
	Analogue output	2	-
	Relay output	2	-
	Communication	RS485	RS485
	DC input	Standard	Standard
	AC input	Standard	-
	DC/AC input Automatically switch	Optional	-
	LED keyboard	Built-in LED keyboard	External LED keyboard
Technical features	GPRS module	Optional	Optional
	MPPT efficiency	99%	99%
	Water level control	✓	✓
Protection	Automatic start function	✓	✓
	Protection	Reverse polarity, Over voltage, Low Voltage, Short circuit, Over current, Dry Run, Etc.	

**SOLAR VFD || AC DRIVE || ELEVATOR DRIVE || HMI || PLC**  
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