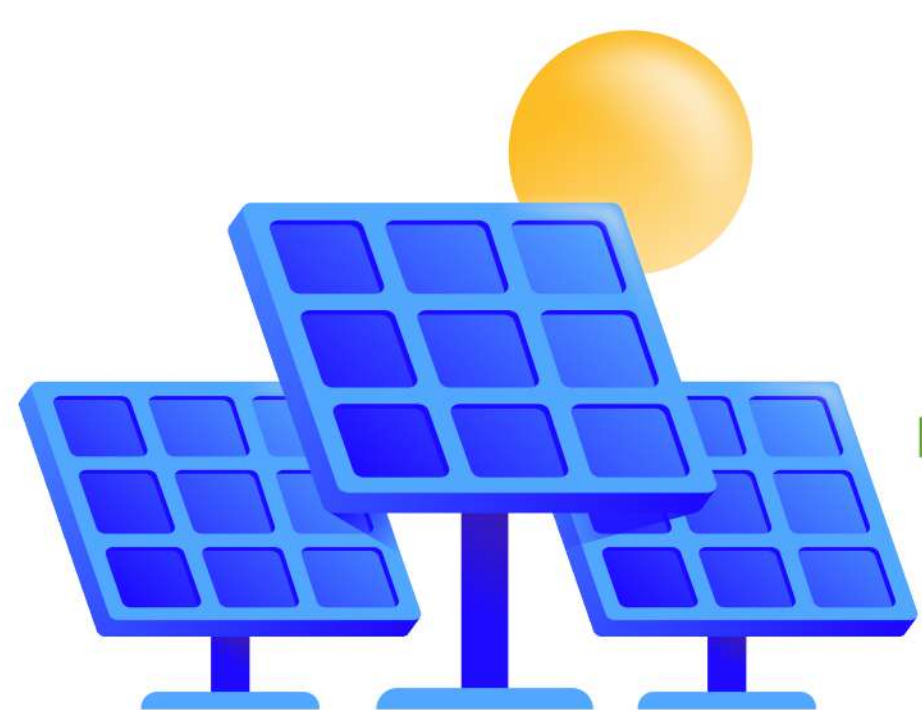


THYRA SOLAR VFD

Farmer's Trusted Indian Brand



Solar Panels

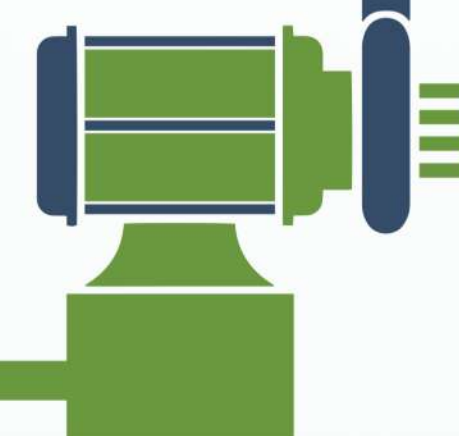


Grid Supply

THYRA SOLAR VFD/ IP65 CONTROLLER



Flour Mill
(Atta Chakki)



Pumpset

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
	GPRS module	Optional	Optional
Technical features	MPPT efficiency	99%	99%
	Water level control	√	√
	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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