

# THYRA SOLAR PUMPING DRIVE





# ABOUT US

THYRA DRIVES & CONTROL SYSTEM, mainly focusing on the industrial servo kit, control system, motion controller and solar industry, is a high-tech company, the product ranges from AC drive, servo system, new clean energy drive, Solar energy drive system. THYRA DRIVES & CONTROL SYSTEM shall be always concentrating on the innovation of technology and keep updating the R&D, for the best and the most competitive industrial solution for customer. Satisfaction of the customer is the pursuit of the company, innovation of the technology and the persistence of the updates are the principal. The drive division are technically originated from Emerson, with the best control and the high-end algorithm of software, the AC drive has been in great demand since it was born. The main product in VFD(AC Drive) of THYRA DRIVES & CONTROL SYSTEM ranges from 0.75kw to 1250kw, multiple of choices of products are available, can be fully satisfying with customer demand.

THYRA SOLAR PUMPING DRIVE, as the solar division in THYRA DRIVES & CONTROL SYSTEM, has been working in solar field for many years, mainly focusing on the R&D and innovation of solar industry, the THYRA MS10 series is using the best algorithm of MPPT to guarantee the water flow and the pump control, fully covering the range from 60V, the best stability of the hardware design and the flexibility of the pump choices are widely welcome by most of the pump manufacturers.





## MS10 SERIES



# SOLAR PUMPING DRIVE

MS10



## PRODUCT FEATURE

- BEST MPPT ALGORITHM  
EFFICIENCY IS MORE THAN 99.5%
- FULL APPLICATION  
SUPPORT AM/PMSP/BLDC MOTORS
- AUTO SLEEPING & AWAKING  
AUTO SLEEPING OF THE PUMP WHEN THE SUNSHINE IS WEAK  
AUTO AWAKING OF THE PUMP WHEN THE SUNSHINE RESUME  
NO NEED MANUAL OPERATION

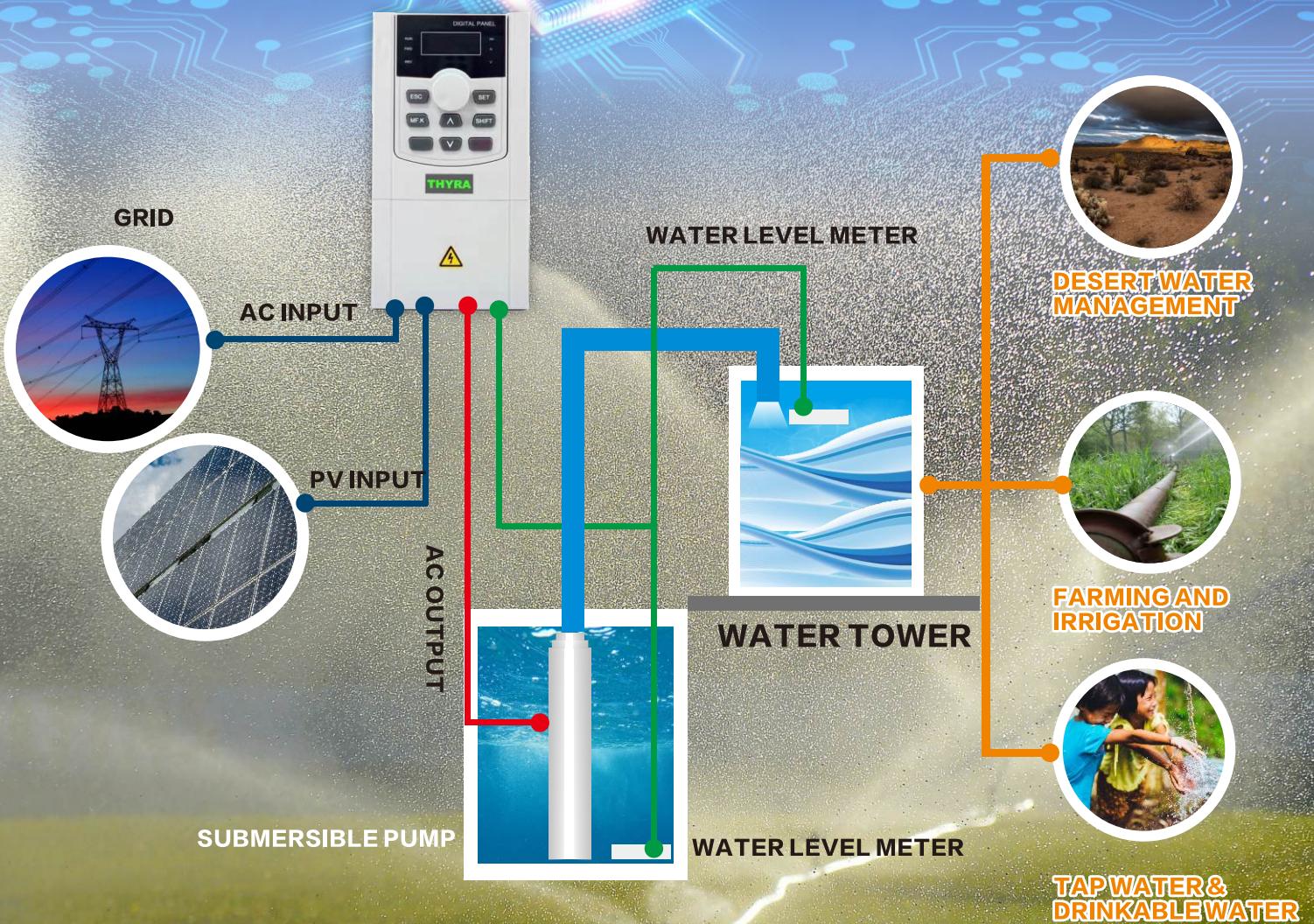


- VARIED LIQUID LEVEL CONTROL  
DRY RUN PROTECTION  
WATER FULL ALARM
- MULTIPLE PROTECTION  
OVER CURRENT PROTECTION  
OVER VOLTAGE PROTECTION  
LACK PHASE PROTECTION  
LESS VOLTAGE PROTECTION  
SHORTCIRCUIT PROTECTION  
OVERHEAT PROTECTION
- BEST WATER FLOW  
LARGEST WATER FLOW IN SAME CONDITION



- ENVIRONMENTAL FRIENDLY  
NO CELL OR BATTERY NEEDED
- SUFFICIENT DATA RECORD  
AUTO RECORDING THE TOTAL GRID POWER,  
WATER FLOW AND RUNNING TIME
- LOWEST POWER NEEDED  
CAN RUN AT THE VOLTAGE OF 60V

# WORKING PRINCIPLE



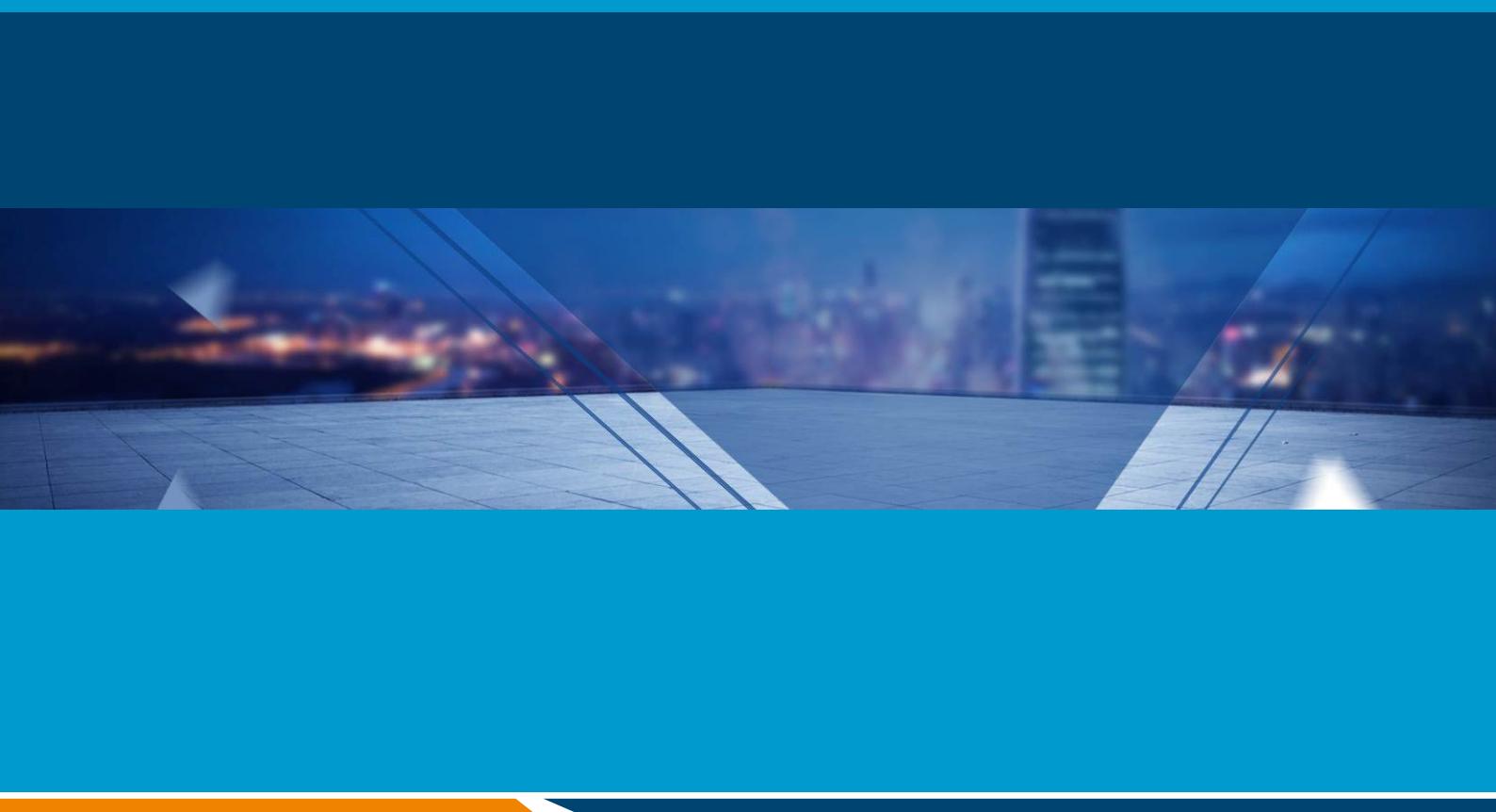


## TECHNICAL SPECIFICATION

PRODUCTS	CURRENT (A)	DV VOLTAGE (V)	PANEL POWER (KW)	PANEL VOC.	PUMP POWER (KW)
<b>2T: INPUT 60-450VDC 220VAC</b>					
MS10-2S-0.75	4.8	60-450	1.5	360-420	0.75
MS10-2S-1.5	8.0	60-450	1.9	360-420	1.5
MS10-2S-2.2	10.0	60-450	2.8	360-420	2.2

## 4T: INPUT 230-800VDC 380VAC

MS10-4T-0.75	2.5	230-800	1	600-750	0.75
MS10-4T-1.5	4.2	230-800	1.9	600-750	1.5
MS10-4T-2.2	5.6	230-800	2.8	600-750	2.2
MS10-4T-4	9.4	230-800	5.1	600-750	4
MS10-4T-5.5	13	230-800	7.2	600-750	5.5
MS10-4T-7.5	17	230-800	9.7	600-750	7.5
MS10-4T-11	25	230-800	14	600-750	11
MS10-4T-15	32	230-800	18.6	600-750	15
MS10-4T-18.5	37	230-800	23.5	600-750	18.5
MS10-4T-22	45	230-800	27.5	600-750	22
MS10-4T-30	60	230-800	37.5	600-750	30



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