



## MNE Solar Pumping Inverter

MNE solar pumping inverter is specially designed for watering system. A high converting efficiency of 98% and advanced MPPT technology make the solar energy fully used. It converts DC power into AC to drive all kinds of motors. The intelligent design protects the pumps from many abnormal cases, such as over-loading, over-voltage, dry-running, over-heating, low frequency and etc.



### DC terminal

Wide input voltage range to optimize PV modules configurations. A booster can be used to extend the voltage range.



### Modified AC power supply terminal

Pure sine wave voltage output. Suitable for single-phase 220V, three-phase 380V and three phase 220V systems. Applicable to all kinds of AC motors from 370W ~110KW.



### Digital control system

TI DSPC & Mitsubishi IGBT module inside. Auto-operation. Full protection.



### AC terminal for hybrid power

Convenient transfer to grid power and generators to enable system to work continuously in weak sunshine.



### LCD +LED display

User-Friendly. System status display. -Real-time voltage and frequency indication. -Error type instruction to facilitate troubleshooting.



### Terminal for water level sensors

Water level detection both in well and tank. Protection from over-pumped and motor burnout. Automatic start once water level recovered.



### Terminal for SMS module

Remote monitor of real-time working status. Facilitate two-way communication between user and system.



### Aluminum casing and cooling fan

Heat dissipation design. Lightweight casing. Long life span. Models above 37KW will use metal plate.

## MNE Three-phase Solar Pumping Inverter

No.	Model	Motor power (kW)	Rated capacity (kVA)	Max. DC open circuit voltage (V)	Min. MPP voltage (V)	Max. input current (A)	Output voltage (V)	Rated output current (A)	Output frequency (Hz)	AC backup	SMS controll	Dimensions (mm)
1	MNE-SP370V2	0.37	1	450	280	2.7	0~220 ( 3PH )	2.6	0~50/60	×	×	298*215*155
2	MNE-SP550V2	0.55	1.4	450	280	4	0~220 ( 3PH )	3.8	0~50/60			
3	MNE-SP750V2	0.75	1.8	450	280	5	0~220 ( 3PH )	5	0~50/60			
4	MNE-SP1K1V2	1.1	2.2	450	280	6.5	0~220 ( 3PH )	6	0~50/60			
5	MNE-SP1K5V2	1.5	3.5	450	280	9.8	0~220 ( 3PH )	9.2	0~50/60			
6	MNE-SP370V3	0.37	1	820	500	2	0~380 ( 3PH )	2	0~50/60			
7	MNE-SP550V3	0.55	1.2	820	500	2.5	0~380 ( 3PH )	2.5	0~50/60			
8	MNE-SP750V3	0.75	1.5	820	500	3	0~380 ( 3PH )	3.2	0~50/60			
9	MNE-SP1K1V3	1.1	2	820	500	4	0~380 ( 3PH )	4	0~50/60			
10	MNE-SP1K5V3	1.5	3.3	820	500	5.4	0~380 ( 3PH )	5	0~50/60			
11	MNE-SP2K2V3	2.2	4.7	820	500	7.6	0~380 ( 3PH )	7.2	0~50/60			
12	MNE-SP3KV3	3	5.9	820	500	9.5	0~380 ( 3PH )	9	0~50/60			
13	MNE-SP3K7V3	3.7	7.2	820	500	12	0~380 ( 3PH )	11	0~50/60			
14	MNE-SP4KV3	4	7.8	820	500	13	0~380 ( 3PH )	13	0~50/60			
15	MNE-SP5K5V3	5.5	9.5	820	500	16	0~380 ( 3PH )	14.5	0~50/60			
16	MNE-SP7K5V3	7.5	13	820	500	22	0~380 ( 3PH )	20	0~50/60			
17	MNE-SP9K2V3	9.2	16.4	820	500	27	0~380 ( 3PH )	25	0~50/60			
18	MNE-SP11KV3	11	18.4	820	500	31	0~380 ( 3PH )	28	0~50/60			
19	MNE-SP13KV3	13	21.7	820	500	35	0~380 ( 3PH )	33	0~50/60			
20	MNE-SP15KV3	15	25	820	500	40	0~380 ( 3PH )	39	0~50/60			
21	MNE-SP18K5V3	18.5	29	820	500	48	0~380 ( 3PH )	45	0~50/60			
22	MNE-SP22KV3	22	34	820	500	56	0~380 ( 3PH )	52	0~50/60			
23	MNE-SP26KV3	26	39	820	500	64	0~380 ( 3PH )	60	0~50/60			
24	MNE-SP30KV3	30	49	820	500	75	0~380 ( 3PH )	70	0~50/60			
25	MNE-SP37KV3	37	60	820	500	91	0~380 ( 3PH )	85	0~50/60			
26	MNE-SP45KV3	45	73	820	500	106	0~380 ( 3PH )	100	0~50/60			
27	MNE-SP55KV3	55	98	820	500	133	0~380 ( 3PH )	125	0~50/60			
28	MNE-SP75KV3	75	116	820	500	171	0~380 ( 3PH )	160	0~50/60			
29	MNE-SP93KV3	93	138	820	500	213	0~380 ( 3PH )	200	0~50/60			
30	MNE-SP110KV3	110	171	820	500	262	0~380 ( 3PH )	245	0~50/60			
												410*277*205
												445*313*235
												530*370*265
												567*300*250
												614*381*298
												740*510*270
												793*580*300

## MNE Three-phase Solar Pumping Inverter

No.	Model	Motor power (kW)	Rated capacity (kVA)	Max. DC open circuit voltage (V)	Min. MPP voltage (V)	Max. input current (A)	Output voltage (V)	Rated output current (A)	Output frequency (Hz)	AC backup	SMS controll	Dimensions (mm)
1	MNE-SP370V4	0.37	1	820	540	2	0 ~ 415 ( 3PH )	1.8	0 ~ 50/60	×	×	298*215*155
2	MNE-SP550V4	0.55	1.2	820	540	2.5	0 ~ 415 ( 3PH )	2.3	0 ~ 50/60			
3	MNE-SP750V4	0.75	1.5	820	540	3	0 ~ 415 ( 3PH )	3	0 ~ 50/60			
4	MNE-SP1K1V4	1.1	2	820	540	4	0 ~ 415 ( 3PH )	3.6	0 ~ 50/60			
5	MNE-SP1K5V4	1.5	3.3	820	540	5.4	0 ~ 415 ( 3PH )	4.5	0 ~ 50/60			
6	MNE-SP2K2V4	2.2	4.7	820	540	7.6	0 ~ 415 ( 3PH )	6.6	0 ~ 50/60			
7	MNE-SP3KV4	3	5.9	820	540	9.5	0 ~ 415 ( 3PH )	8.2	0 ~ 50/60			
8	MNE-SP3K7V4	3.7	7.2	820	540	12	0 ~ 415 ( 3PH )	10	0 ~ 50/60			
9	MNE-SP4KV4	4	7.8	820	540	13	0 ~ 415 ( 3PH )	12	0 ~ 50/60			
10	MNE-SP5K5V4	5.5	9.5	820	540	16	0 ~ 415 ( 3PH )	13	0 ~ 50/60			
11	MNE-SP7K5V4	7.5	13	820	540	22	0 ~ 415 ( 3PH )	18	0 ~ 50/60			
12	MNE-SP9K2V4	9.2	16.4	820	540	27	0 ~ 415 ( 3PH )	23	0 ~ 50/60			
13	MNE-SP11KV4	11	18.4	820	540	31	0 ~ 415 ( 3PH )	26	0 ~ 50/60			
14	MNE-SP13KV4	13	21.7	820	540	35	0 ~ 415 ( 3PH )	30	0 ~ 50/60			
15	MNE-SP15KV4	15	25	820	540	40	0 ~ 415 ( 3PH )	36	0 ~ 50/60			
16	MNE-SP18K5V4	18.5	29	820	540	48	0 ~ 415 ( 3PH )	41	0 ~ 50/60			
17	MNE-SP22KV4	22	34	820	540	56	0 ~ 415 ( 3PH )	48	0 ~ 50/60			
18	MNE-SP26KV4	26	39	820	540	64	0 ~ 415 ( 3PH )	55	0 ~ 50/60			
19	MNE-SP30KV4	30	49	820	540	75	0 ~ 415 ( 3PH )	64	0 ~ 50/60			
20	MNE-SP37KV4	37	60	820	540	91	0 ~ 415 ( 3PH )	78	0 ~ 50/60			
21	MNE-SP45KV4	45	73	820	540	106	0 ~ 415 ( 3PH )	92	0 ~ 50/60			
22	MNE-SP55KV4	55	98	820	540	133	0 ~ 415 ( 3PH )	115	0 ~ 50/60			
23	MNE-SP75KV4	75	116	820	540	171	0 ~ 415 ( 3PH )	147	0 ~ 50/60			
24	MNE-SP93KV4	93	138	820	540	213	0 ~ 415 ( 3PH )	184	0 ~ 50/60			
25	MNE-SP110KV4	110	171	820	540	262	0 ~ 415 ( 3PH )	225	0 ~ 50/60			

## MNE Booster Solar Pumping Inverter

Model	Power (kW)	Min. MPP voltage (V)	Max. DC open circuit voltage (V)	Max. input current (A)	Output voltage (V)	Rated output current (A)	Output frequency (Hz)	Dimensions (mm)	Packaging (mm)	NW (kg)
MNE-SP370V2B	0.37	80	400	13.8	0 ~ 220(3PH)	2.60	0 ~ 50/60	440*215*155	510*280*250	7.5
MNE-SP550V2B	0.55	80	400	13.8	0 ~ 220(3PH)	3.80	0 ~ 50/60			
MNE-SP750V2B	0.75	95	400	13.8	0 ~ 220(3PH)	4.80	0 ~ 50/60			
MNE-SP1k1V2B	1.1	130	400	13.8	0 ~ 220(3PH)	6.00	0 ~ 50/60			
MNE-SP1k5V2B	1.5	160	400	13.8	0 ~ 220(3PH)	9.20	0 ~ 50/60			
MNE-SP370V3B	0.37	80	600	13.8	0 ~ 380(3PH)	2.00	0 ~ 50/60			
MNE-SP550V3B	0.55	80	600	13.8	0 ~ 380(3PH)	2.50	0 ~ 50/60			
MNE-SP750V3B	0.75	95	600	13.8	0 ~ 380(3PH)	3.20	0 ~ 50/60			
MNE-SP1k1V3B	1.1	130	600	13.8	0 ~ 380(3PH)	4.00	0 ~ 50/60			
MNE-SP1k5V3B	1.5	160	600	13.8	0 ~ 380(3PH)	5.00	0 ~ 50/60			
MNE-SP2k2V3B	2.2	200	600	13.8	0 ~ 380(3PH)	7.20	0 ~ 50/60			
MNE-SP3kV3B	3	270	600	13.8	0 ~ 380(3PH)	9.00	0 ~ 50/60			
MNE-SP3k7V3B	3.7	330	600	13.8	0 ~ 380(3PH)	11.00	0 ~ 50/60			
MNE-SP370V4B	0.37	80	600	13.8	0 ~ 415(3PH)	1.80	0 ~ 50/60			
MNE-SP550V4B	0.55	80	600	13.8	0 ~ 415(3PH)	2.30	0 ~ 50/60			
MNE-SP750V4B	0.75	95	600	13.8	0 ~ 415(3PH)	3.00	0 ~ 50/60			
MNE-SP1k1V4B	1.1	130	600	13.8	0 ~ 415(3PH)	3.60	0 ~ 50/60			
MNE-SP1k5V4B	1.5	160	600	13.8	0 ~ 415(3PH)	4.50	0 ~ 50/60			
MNE-SP2k2V4B	2.2	200	600	13.8	0 ~ 415(3PH)	6.60	0 ~ 50/60			
MNE-SP3kV4B	3	270	600	13.8	0 ~ 415(3PH)	8.20	0 ~ 50/60			
MNE-SP3k7V4B	3.7	330	600	13.8	0 ~ 415(3PH)	10.00	0 ~ 50/60			

## MNE Single-phase Solar Pumping Inverter

Model	Power (kW)	Min. MPP voltage (V)	Max. DC open circuit voltage (V)	Max. input current (A)	AC input ( AC backup function ) (V)	Output voltage (V)	Rated output current (A)	Output frequency (Hz)	Dimensions (mm)	Packaging (mm)	NW (kg)
MNE-SP370V2U	0.37	80	430	12.3	220/230/240(1PH)	0 ~ 220/230/240(1PH)	4.0	0 ~ 50/60	440*215*155	510*280*250	7.5
MNE-SP550V2U	0.55	105	430	13	220/230/240(1PH)	0 ~ 220/230/240(1PH)	5.5	0 ~ 50/60			
MNE-SP750V2U	0.75	135	430	13	220/230/240(1PH)	0 ~ 220/230/240(1PH)	7.2	0 ~ 50/60			
MNE-SP1K1V2U	1.1	190	430	13	220/230/240(1PH)	0 ~ 220/230/240(1PH)	10.0	0 ~ 50/60			
MNE-SP1K5V2U	1.5	245	430	13	220/230/240(1PH)	0 ~ 220/230/240(1PH)	13.0	0 ~ 50/60			
MNE-SP2K2V2U	2.2	190	430	20	220/230/240(1PH)	0 ~ 220/230/240(1PH)	19.0	0 ~ 50/60			
MNE-SP3KV2U	3	245	430	20	--	0 ~ 220/230/240(1PH)	24.0	0 ~ 50/60			
MNE-SP3K7V2U	3.7	270	430	24	--	0 ~ 220/230/240(1PH)	28.0	0 ~ 50/60			

## Optional Function of Solar Pumping Inverter

### SMS Module

Using your mobile phone can control the system simply whenever and wherever possible.



### AC power supply controller for hybrid power

It switches to AC power for back up supply when the solar power is insufficient or at night. So the system can work for 24 hour. This AC power supply controller can be used in all the solar pumping systems.

