

Features

- Digital DSP control technology
- Maximum power point tracking (MPPT) efficiency >99.9%
- Pure sine wave output, automatic synchronization grid, harmony wave is little
- Easy-setting multilingual LCD display panel
- High reliability with full functions of protection & alarm
- RS485 / Ethernet communication, long-distance data collection & monitor

Application

- Family of small power station
- Power plant, Substation, Telecommunication room
- Battery discharge
- Government demonstration project



Technical features	MEGASolar 1500 TL	MEGASolar 2500 TL	MEGASolar 3000 TL	MEGASolar 4000 TL	MEGASolar 4600 TL
Input Ratings					
Max. DC Input Power	1650 W	2760 W	3315 W	4420 W	5030 W
Max. Input Current	8 A	14 A	16 A	21 A	23 A
Max. Input Voltage	550 Vdc	550 Vdc	550 Vdc	550 Vdc	550 Vdc
Number of MPP trackers	1	1	2	2	2
MPPT Voltage Range (Rate Power)	200 ~ 500 Vdc	200 ~ 500 Vdc	200 ~ 500 Vdc	200 ~ 500 Vdc	200 ~ 500 Vdc
Start PV Voltage	120 Vdc	120 Vdc	120 Vdc	120 Vdc	120 Vdc
Output Ratings					
Rated Output AC Power	1500 W	2500 W	3000 W	4000 W	4600 W
Max. Output AC Power	1575 W	2625 W	3150 W	4200 W	4830 W
Output Voltage Range	187 ~ 264 Vac	187 ~ 264 Vac	187 ~ 264 Vac	187 ~ 264 Vac	187 ~ 264 Vac
Rated Output Current	6.5 A	11 A	13 A	17 A	20 A
Operating Frequency Range	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz
THD (Rated Power)	< 3 % (Rated power)	< 3 % (Rated power)	< 2 % (Rated power)	< 2 % (Rated power)	< 2 % (Rated power)
Power Factor	> 0.99 (Rated Power)	> 0.99 (Rated Power)	> 0.99 (Rated Power)	> 0.99 (Rated Power)	> 0.99 (Rated Power)
Efficiency					
Maximum efficiency	96.9 %	96.9 %	97.6 %	97.6 %	97.6 %
European efficiency	95.6 %	95.6 %	96.8 %	96.8 %	96.8 %
Max. MPPT efficiency	99.9 %	99.9 %	99.9 %	99.9 %	99.9 %
Safety & Protection					
Overvoltage/under- voltage protection	Yes	Yes	Yes	Yes	Yes
DC isolation impedance monitoring	Yes	Yes	Yes	Yes	Yes
Ground fault protection	Yes	Yes	Yes	Yes	Yes
Grid monitoring	Yes	Yes	Yes	Yes	Yes
Ground fault current monitoring	Yes	Yes	Yes	Yes	Yes
DC injection monitoring	Yes	Yes	Yes	Yes	Yes
System & Mechanical					
Enclosure Protection	IP 65 (outdoor)	IP 65 (outdoor)	IP 65 (outdoor)	IP 65 (outdoor)	IP 65 (outdoor)
Communication (Standard / Optional)	RS485 / Ethernet/	RS485 / Ethernet/	RS485 / Ethernet/	RS485 / Ethernet/	RS485 / Ethernet/
Operating Temperature Range	-20~+60℃ (up 45℃ derating)	-20~+60℃ (up 45℃ derating)	-20~+60℃ (up 45℃ derating)	-20~+60℃ (up 45℃ derating)	-20~+60℃ (up 45℃ derating)
Relative Humidity	0~95%, no condensation	0~95%, no condensation	0~95%, no condensation	0~95%, no condensation	0~95%, no condensation
Max. Altitude	2,000 m	2,000 m	2,000 m	2,000 m	2,000 m
Internal consumption (night)	<0.2 W	<0.2 W	<0.2 W	<0.2 W	<0.2 W
Display Interface	LCD	LCD	LCD	LCD	LCD
Cooling Mode	Convection	Convection	Convection	Convection	Convection
Dimensions (W x H x D)	480 x 325 x 108mm	480 x 325 x 108mm	510 x 400 x 128 mm	510 x 400 x 128 mm	510 x 400 x 128 mm
Weight	15.5 kg	15.5 kg	23 kg	23 kg	23 kg
Standard Warranty	5 years	5 years	5 years	5 years	5 years