

Mercury

Residential Single-phase On-grid PV Inverter Mercury Series

Mercury 3680-S1~Mercury 6000-S1



ZONERGY



Smart adaptive weak current network serves to avoid frequent grid-connection failures of the product.



Independent dual MPPT tracking adaptable to different installation environment.



Wide DC voltage range and longer power generation duration.



This product supports remote parameter setting, fault diagnosis and software upgrade.



This product with a variety of monitoring modes supports RS485, Wi-Fi/Ethernet/GPRS.



IP66 degrees of protection makes the product suitable for various harsh application environments.

Mercury 3680-S1~Mercury 6000-S1 Technical parameters

Technical parameters:	Mercury 3680-S1	Mercury 4000-S1	Mercury 4600-S1	Mercury 5000-S1	Mercury 6000-S1
	Input (DC)				
Maximum panel input power recommended	4900 Wp	6000 Wp	6900 Wp	7500 Wp	9000 Wp
Maximum input voltage			600 V		
Start-up input voltage			120 V		
Rated input voltage			360 V		
MPPT voltage range			100 V-550 V		
Full load DC voltage range			250 V-520 V		
Number of independent MPPT			2		
Number of DC inputs			1/1		
Maximum Input current			13 A/13 A		
Maximum short circuit current			18 A /18 A		
	Output (AC)				
Rated output power	3680 W	4000 W	4600 W	4999 W	6000 W
Maximum output current	16 A	17.4 A	20 A	21.7 A	26 A
Nominal grid voltage	L/N/PE, 220Vac, 230Vac, 240Vac				
Nominal AC voltage range	180 VAC-276 VAC (according to local standard)				
Rated grid frequency	50 Hz/ 60 Hz				
Grid frequency range	45 Hz-55 Hz/54 Hz-66 Hz (according to local standard)				
Active power adjustable range	0~100%				
Total harmonic component (current)	<3%				
Power Factor	1 (+/-0.8 adjustable)				
	Efficiency				
Maximum efficiency	97.60%		97.70%		97.80%
European weighted efficiency	97.10%		97.20%		97.30%
MPPT efficiency	>99.9%				
	Protection				
Insulation impedance detection	available				
DC reverse connection protection	available				
Ground fault monitoring	available				
Over-current protection	available				
DC switch	available				
Battery soft start protection	available				
AFCI protection	optional				
	General parameters				
Ambient temperature range	-30 ~ + 60 °C (Rating reduction occurs when the ambient temperate rises above 45 °C.)				
Stand-by loss	<10 W				
Topology	no transformer				
Degrees of protection	IP66				
Relative Humidity range allowed	0~100%				
Communication	RS485, WIFI / 4G (optional)				
Protection level	Class I				
Maximum altitude for product operation	2000 m				
Connection mode of current sensor	external				
Noise	<29 dB				
Weight	11 kg				
Cooling mode	natural cooling				
Dimension (mm)	380*380*150				
Display	LCD & APP				
Warranty	5 years (extendable)				
	Standard				
EMC	EN 61000-6-1, EN 61000-6-3				
Safety regulations and standards	IEC62109-1,IEC62109-2				
Grid-connection standard	IEC61727, IEC62116, IEC-61683, VDE-AR-N 4105, VDE V 0124-100, AS4777				

Note: Technical parameters listed hereunder are for reference only. Actual parameters shall be subject to products shipped.