

# Mercury

Residential Single-phase On-grid PV Inverter Mercury Series  
Mercury 3680-S1~Mercury 6000-S1



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



Independent dual MPPT tracking adaptable to different installation scenarios.



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
<b>Input (DC)</b>					
Maximum panel input power recommended	5520 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 Strings	2 1/1				
Maximum Input current	16 A/16 A				
Maximum short circuit current	20 A/20 A				
<b>Output (AC)</b>					
Rated output power	3680 W	4000 W	4600 W	5000 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 (adjustable range: 0.8 leading ~ 0.8 lagging)				
<b>Efficiency</b>					
Maximum efficiency	97.60%		97.70%		97.80%
European weighted efficiency	97.10%		97.20%		97.30%
MPPT efficiency	>99.9%				
<b>Protection</b>					
Insulation impedance detection	yes				
DC reverse connection protection	yes				
Ground fault monitoring	yes				
Over-current protection	yes				
DC switch	yes				
AFCI protection	optional				
<b>General parameters</b>					
Ambient temperature range	-30 ~ + 60 °C (Rating reduction occurs when the ambient temperature 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	3000m(>2000m Rating reduction occurs)				
Connection mode of current sensor	external				
Noise	<29 dB				
Weight	11 kg				
Cooling mode	natural cooling				
Dimension (mm)	350*350*155				
Display	LED indicator light, Bluetooth / WIFI + APP				
<b>Other</b>					
Certification	EN IEC62109-1, EN IEC62109-2, IEC61683, IEC61727, IEC62116, IEC60068, EN IEC61000-6-1, EN IEC61000-6-3, EN50530, IEC60529 IP66, RoHS(2011/65/EU+2015/863), WEEE(2012/19/EU), ISTA, CQC NB/T32004, GB/T37408				
Warranty	5 Years				

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