



● Three Phase Grid-Tied PV Inverter

● Lake Series

● LA8000D / LA10000D / LA12000D

FEATURE

● **High Efficiency**

High conversion efficiency up to 98.4%.
Enhanced dynamic MPPT algorithm to make sure accurate and real-time MPP tracking.

● **Compact and Robust**

Integrated string combiner functionality.
IP65 protection grade: CapSense Button design to ensure superior water proof performance

● **Intelligent Monitoring, User Friendly**

Firmware can be upgraded via USB flash disc.
Easy connection for GPRS or WIF module. Remotely monitoring system anytime and anywhere through web portal or mobile APP .



Bottom View

Inverter	LA8000D	LA10000D	LA12000D
Input (DC)			
Max. DC Input Power [W]	12000	15000	18000
Max. DC Voltage [V]	1100	1100	1100
Operating MPPT Voltage Range [V]	250-950	250-950	250-950
Full Load MPPT Range [V]	370-800	440-800	370-800
Normal Input Voltage [V]	630	630	630
Star Voltage/Initial Feeding Voltage [V]	200/280	200/280	200/280
Turn off Voltage [V]	150	150	150
Number of MPP Trackers	2	2	2
Number of DC Connections/Tracker	A:1; B:1	A:1; B:1	A:2; B:1
Max. DC Current per Tracker [A]	27 (13.5/13.5)	27 (13.5/13.5)	30.5 (13.5*2/13.5)
Max. Power per Tracker [W]	A:5000; B:5000	A:6000; B:6000	A:8000; B:6000
Output (AC)			
Max. AC Output Power [VA]	8000	10000	12000
Nominal AC Output Power [W]	8000	10000	12000
Nominal AC Voltage [V]*	3 / N / PE; 220 V / 380 V	3 / N / PE; 220 V / 380 V	3 / N / PE; 220 V / 380 V
AC Voltage Range [V]	187 - 270	187 - 270	187 - 270
Nominal Frequency [Hz]*	50 / 60	50 / 60	50 / 60
Frequency Range [Hz]	45 - 55 / 55 - 65	45 - 55 / 55 - 65	45 - 55 / 55 - 65
Max. AC Current [A]	3*12.8	3*16	3*18.5
Power Factor	0.8i - 0.8c	0.8i - 0.8c	0.8i - 0.8c
Total Harmonic Distortion (THD)	<3%	<3%	<3%
Efficiency			
Max. Efficiency	98.30%	98.30%	98.40%
Euro Efficiency	97.60%	97.60%	97.70%
MPPT Efficiency	99.90%	99.90%	99.90%
Loss at Night	<1W	<1W	<1W
Safety and Protection			
Array ground insulation resistance monitoring	yes		
All-pole sensitive residual current monitoring unit	Yes		
Array polarity reverse protection	yes		
Output short circuit protection	yes		
Anti-island protection	yes		
Surge protection	yes		
Protection Class	I		
Overvoltage Category	PV II / Mains III		
General data			
Dimensions (WxHxD) [mm]	400*462*180	400*462*180	400*462*180
Weight [kg]	16	17.5	19
Environmental Protection Rating	IP65		
Cooling Concept	Forced convection		
DC Switch	Optional		
DC Connector	Amphenol connector		
AC Connector	Plug-in connector		
Mounting Information	Wall bracket		
Feature			
Operating Temperature Range [°C]	-25 ~ +60, derating when temperature>45 °C		
Relative Humidity	0 - 95%,non condensing		
Max. Altitude (above sea level) [m]	<2000		
Noise Emission [dB]	<45		
Topology	Transformerless		
Display	LCD, CapSense key		
Data Communication Interfaces	WiFi/GPRS optional		
Certification	AS 4777.2, C10/11, CE, CEI 0-21, EN 50549, G99, DIN EN 62109, IEC 62109, RD1699, VDE-AR-N 4105, VDE0126-1-1, IEC 61727, IEC 62116R-N 4105, VDE0126-1-1, IEC 61727, IEC 62116		

*The AC voltage and frequency range may vary depending on specific country grid