

X3-MEGA G2

THREE-PHASE
ON-GRID INVERTER

40~60kW



Features

More energy harvest

- Maximum efficiency 98.4%
- 180~1000Vdc MPPT voltage range
- Maximum 6 MPPTs, 2 strings per MPP tracker
- 150% PV oversizing input, 110% overloading output
- Maximum 32A MPPT current, 16A per string

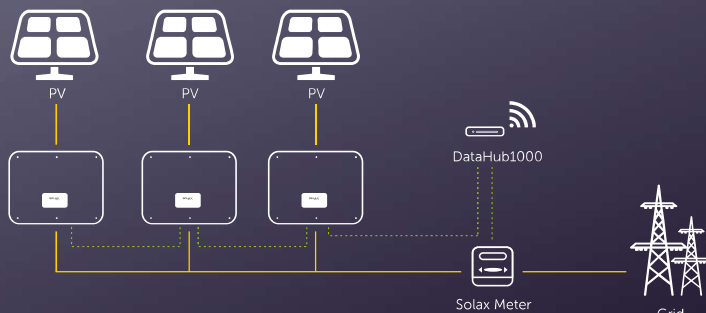
Safety & Reliability

- IP66 protection level
- AFCI protection (Optional)
- Both AC & DC SPDs (Type II) inside, Type I SPD is optional

Intelligence for easy maintenance and economy

- Built-in export power control
- Remote setting and upgrading
- Smart I-V Curve Diagnosis supported
- Aluminium AC cable connection available
- Current measuring for each of PV string
- SVG functional supported (Optional)
- 24 hours operation monitoring (Optional)
- Power line communication (PLC) (Optional)
- Smart air cooling technique results in long lifetime of fans
- Advanced heat dissipation technology makes the system more than 10% lighter and smaller

SOLUTION DESIGN



X3-MEGA G2

THREE-PHASE

X3-MGA-40K-G2

X3-MGA-50K-G2

X3-MGA-60K-G2

DC INPUT

Max. PV array input power [kWp]	60	75	90
Max. PV input voltage [V]		1100	
Startup voltage [V]		200	
Nominal input voltage [V]		600	
MPP tracker voltage range [V]		180~1000	
No. of MPP trackers	4	5	6
Strings per MPP tracker	2	2	2
Max. input current per MPPT [A]		32	
Max. short circuit current per MPPT [A]		46	

AC OUTPUT

Nominal AC output power [kW]	40	50	60
Nominal AC output current [A]	60.6 / 58	75.8 / 72.5	90.9 / 87
Max. AC output apparent power [kVA]	44	55	66
Max. AC output current [A]	66.7 / 63.9	83.3 / 79.7	100 / 95.7
Nominal AC voltage [V]		220/380V, 230/400V, 3/N/PE, 3/PE	
Nominal grid frequency [Hz]		50/60	
Displacement power factor		0.8 leading ~ 0.8 lagging	
THDi (Rated power) [%]		<3	

SYSTEM DATA

Max. efficiency [%]	98.4
Euro. efficiency [%]	98.1
Standby consumption [W] @Night	<2
Ingress protection	IP66
Operating temperature range [°C]	-25~+60(Derating above 45)
Max. operation altitude [m]	4000(Derating above 3000)
Relative humidity [%]	1~100
Dimensions[WxHxD] [mm]	630x521x286
Weight [kg]	44
Cooling concept	Smart fan cooling
Communication interfaces	Rs485 / (Optional: Pocket Wifi/4G) / Bluetooth / USB

PROTECTION

Over/under voltage protection	YES
Over current protection	YES
DC isolation protection	YES
Grid monitoring	YES
DC injection monitoring	YES
Residual current detection	YES
Anti-islanding protection	YES
String fault detection	YES
Over temperature protection	YES
SPD (DC/AC)	Type II / Type II
ARC	Optional

STANDARD

Safety	IEC/EN 62109-1; IEC/EN 62109-2; NB/T 32004
EMC	EN/IEC 61000; NB/T 32004
Certification	VDE4105; EN 50549; AS 4777.2; VDE4105; IEC 61727; IEC 62116; IEC 61683; IEC 60068; EN 50530; NB/T 32004

*V2.3, Information may be subject to modify without notice. 650.00002.00