

X3-HYBRID G4

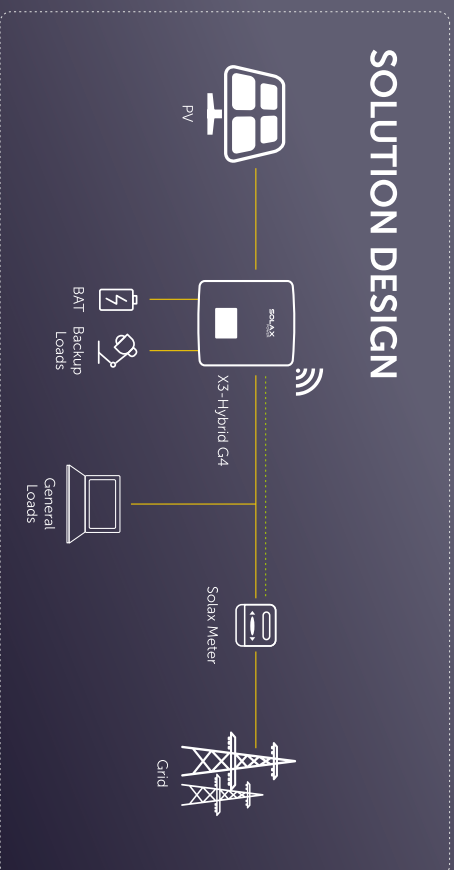
D:Should be used without matebox
M:Should be used with matebox

THREE-PHASE HYBRID INVERTER

5.0~15kW

Features

- High-efficient**
 - 150% PV oversized and 110% overload output
 - Maximum 150% overload output
 - Higher efficiency on charging and discharging, up to 97.45%
 - Built-in shadow tracking function
- Economic**
 - Maximum 16A DC input current, support for high power solar panel
 - Store the surplus energy from PV to battery
 - Low start output voltage makes inverter longer working time
 - Less energy loss on battery to inverter
- Intelligent**
 - Switchover time <10ms
 - Quick configuration with U-disk
 - Lithium & Lead-acid battery compatible
 - CT compatible, loads respond within 0.3s
 - Intelligent loads management(e.g., Heat pump)
 - On & Off-grid parallel function, up to 150kW
 - 5 work modes, 4 charging periods available
 - VPP ready, ancillary service in power market
 - Three-phase unbalanced output50% nominal output power on single phase at most
- Safe**
 - IP65 protection level
 - Integrated SPD



SOLUTION DESIGN

X3-HYBRID G4

THREE-PHASE

X3-HYBRID-5.0-0 X3-HYBRID-6.0-0 X3-HYBRID-8.0-0 X3-HYBRID-10.0-0 X3-HYBRID-12.0-0 X3-HYBRID-15.0-0
X3-HYBRID-5.0-M X3-HYBRID-6.0-M X3-HYBRID-8.0-M X3-HYBRID-10.0-M X3-HYBRID-12.0-M X3-HYBRID-15.0-M

DC INPUT		5000	6000	8000	10000	12000	15000	18000	18000
Max. PV array input power [MVA]		8000	10000	12000	15000	18000	18000	18000	18000
Max. PV input voltage [V]		1000	1000	1000	1000	1000	1000	1000	1000
Start output voltage [V]		200	200	200	200	200	200	200	200
Nominal input voltage [V]		640	640	640	640	640	640	640	640
MPP voltage range [V]		180~950	180~950	180~950	180~950	180~950	180~950	180~950	180~950
No. of MPP trackers/Strings per MPP tracker		21/11	21/11	21/11	21/11	21/11	21/11	21/11	21/11
Max. input current/Input A/Input B [A]		16/16	16/16	26/16	26/16	26/16	26/16	26/16	26/16
Max. short circuit current/Input A/Input B [A]		18/18	18/18	30/18	30/18	30/18	30/18	30/18	30/18

AC INPUT & OUTPUT		5000	6000	8000	10000	12000	15000 (4800 for PE)
Nominal AC output power [W]		5000	6000	8000	10000	12000	15000
Max. AC output apparent power [VA]		5500	6600	8800	11000	13200	15000
Max. AC output current [A]		8.1	9.7	12.9	16.1	19.3	24.1
Max. AC input apparent power [VA]		10000	12000	16000	20000	20000	20000
Max. AC input current [A]		16.1	19.3	25.8	32.0	32.0	32.0
Nominal AC voltage [V]				415/240; 400/230; 380/220			
Nominal grid frequency/Grid frequency range [Hz]				50/60			
Displacement power factor				0.8 leading~0.8 lagging			
THDI (rated power) [%]				<3			

BATTERY DATA		180-650
Battery type		Lith-ion battery
Battery voltage range [V]		180-650
Max. continuous charge/discharge current [A]		30

EPS/OFF-GRID OR BACK-UP OUTPUT (WITH BATTERY)		5000	6000	8000	10000	12000	15000
Nominal output power [W]		7500/60s	9000, 60s	12000/60s	15000, 60s	15000, 60s	15000, 60s
Peak apparent power [VA]		7.2	8.7	11.6	14.5	17.5	21.8
Max continuous current [A]				400/230; 50/60			
Nominal voltage[V]; Frequency [Hz]							
Switch time [ms]				<10			
Parallel operation				YES (Details refer to website)			

SYSTEM DATA		98.0	97.7	98.5/97.5	IP65	<3000	0-100	<35	<35	<35	<45	<45
Max. efficiency [%]		98.0	97.7	98.5/97.5	IP65	<3000	0-100	<35	<35	<35	<45	<45
Euro efficiency [%]				98.5/97.5								
Battery charged/discharge efficiency [%]*1				<5W for cold standby								
Standby consumption [W] @Night												
Degree of protection												
Operating temperature range (°C)												
Max. operation altitude [m]												
Humidity [%]												
Typical noise emission [dB]												
Storage temperature (°C)												
Dimensions(WxHxD) [mm]												
Net weight [kg]												
Cooling concept												
Communication interfaces												

STANDARD		EN/IEC62109-1/-2
Safety		EN61000-6-1/2/3/4; EN61000-3-2/3/11/12
EMC		VDE4105 /C99 /C98 / AS4777 / EN50549 / CEI 0-21 /CE1477/VDE 0124/PEA and so on
Certification		

*1. PV to BAT Max. efficiency: 98.5%, BAT to AC Max. efficiency: 97.0%