

# X3-HYBRID G4

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

THREE-PHASE  
HYBRID INVERTER

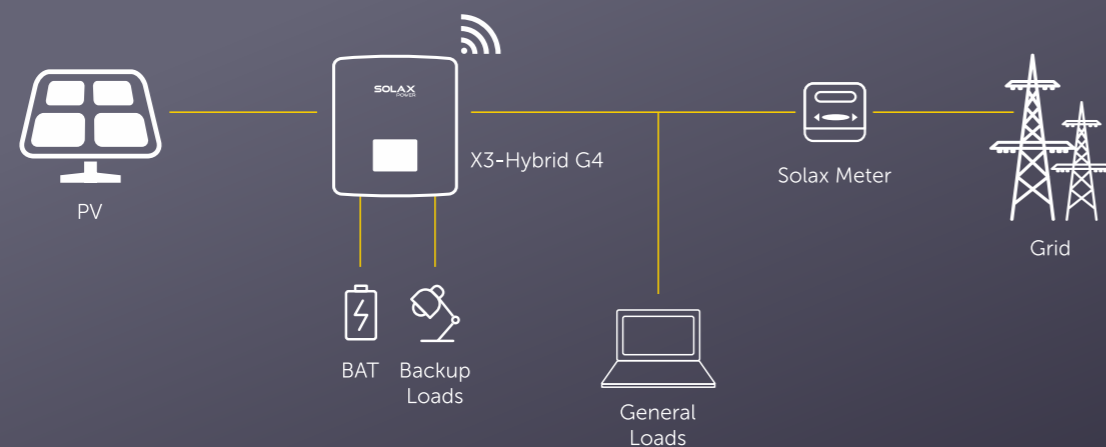
5.0~15kW



## Features

- VPP function
- IP65 protection level
- Working temperature: -35°C to 60°C
- Max. 150% oversized PV power
- Max. 110% nominal apparent AC power
- Quick installation (30 min, M version)
- Parallel function on-grid & off-grid (developing)
- Unbalanced output
- Fast charge/discharge
- UPS level
- Low-temperature rising
- Shadow management

## SOLUTION DESIGN



# X3-HYBRID G4

## THREE-PHASE

X3-Hybrid-5.0-D X3-Hybrid-5.0-M X3-Hybrid-6.0-D X3-Hybrid-6.0-M X3-Hybrid-8.0-D X3-Hybrid-8.0-M X3-Hybrid-10.0-D X3-Hybrid-10.0-M X3-Hybrid-12.0-D X3-Hybrid-12.0-M X3-Hybrid-15.0-D X3-Hybrid-15.0-M

	X3-Hybrid-5.0-D X3-Hybrid-5.0-M	X3-Hybrid-6.0-D X3-Hybrid-6.0-M	X3-Hybrid-8.0-D X3-Hybrid-8.0-M	X3-Hybrid-10.0-D X3-Hybrid-10.0-M	X3-Hybrid-12.0-D X3-Hybrid-12.0-M	X3-Hybrid-15.0-D X3-Hybrid-15.0-M
<b>DC INPUT</b>						
Max. PV array input power [Wp]	8000	10000	12000	15000	18000	18000
Max. PV input voltage [V]	1000	1000	1000	1000	1000	1000
Startup voltage [V]	160	160	160	160	160	160
Nominal input voltage [V]	630	630	630	630	630	630
MPP tracker voltage range [V]	180~950	180~950	180~950	180~950	180~950	180~950
No. of MPP trackers/Strings per MPP tracker	2(1/1)	2(1/1)	2(2/1)	2(2/1)	2(2/1)	2(2/1)
Max. input current(input A/input B) [A]	14/14	14/14	26/14	26/14	26/14	26/14
Max. short circuit current(input A/input B) [A]	16/16	16/16	30/16	30/16	30/16	30/16
<b>AC INPUT &amp; OUTPUT</b>						
Nominal AC output power [W]	5000	6000	8000	10000	12000	15000 (14000 for PEA)
Nominal AC output current [A]	7.2	8.7	11.6	14.5	17.5	21.8
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					
<b>BATTERY DATA</b>						
Battery type	Li-ion battery					
Battery voltage range [V]	180~650					
Max. continuous charge/discharge current [A]	30					
<b>EPS(OFF-GRID OR BACK-UP) OUTPUT (WITH BATTERY)</b>						
Nominal output power [W]	5000	6000	8000	10000	12000	15000
Peak apparent power [VA]	7500,60s	9000, 60s	12000,60s	15000, 60s	15000, 60s	16500, 60s
Max.continuous current [A]	7.2	8.7	11.6	14.5	17.5	21.8
Nominal voltage[V]; Frequency [Hz]	400/230; 380/220; 50/60					
THDv(Linear Load) [%]	<3					
Switch time [ms]	<10					
Parallel operation	YES, 10					
<b>SYSTEM DATA</b>						
Max. efficiency [%]	98.00					
Euro. efficiency [%]	97.70					
Battery charge/discharge efficiency [%]	98.5/97.00					
Standby consumption [W] @Night	<40W for hot standby, <5W for cold standby					
Ingress protection	IP65					
Operating temperature range [°C]	-35~60 (derating at +45°C, charge derating at +35°C)					
Max. operation altitude [m]	≤3000					
Humidity [%]	0~100 (condensing)					
Typical noise emission [dB]	<35	<35	<35	<35	<45	<45
Storage temperature [°C]	-40~65					
Dimensions(WxHxD) [mm]	503*503*199					
Weight [kg]	30					
Cooling concept	Nature cooling			Smart cooling		
Communication interfaces	Meter/ Pocket Wi-Fi(optional)/ DRM/ USB/ ISO alarm/ RS485/ NTC/ BMS/ LCD/ RS485					
<b>STANDARD</b>						
Safety	EN/IEC62109-1/-2					
EMC	EN61000-6-1/2/3/4;EN61000-3-2/3/11/12					
Certification	VDE4105 /G99 /G98 / AS4777 / EN50549/ CEI 0-21 /IEC61727/VDE 0124/PEA and so on					