

X1-HYBRID G4

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

SINGLE-PHASE

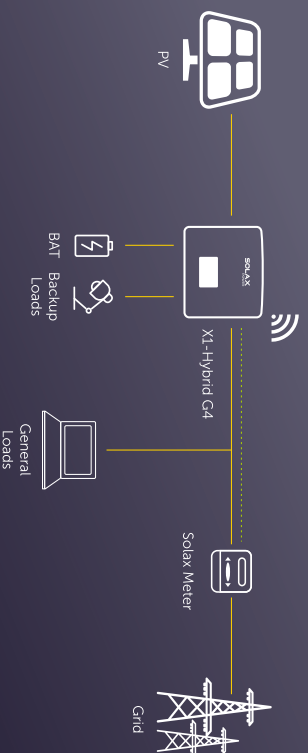
3.0~7.5KW



Features

- High-efficient**
 - 150% PV oversized and 110% overload output
 - Maximum 120% overload output
 - Higher efficiency on charging and discharging, up to 96.9%
 - 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 15KW
 - VPP ready, ancillary service in power market
- Safe**
 - IP65 protection level
 - Integrated SPD

SOLUTION DESIGN



X1-HYBRID G4

SINGLE-PHASE

X1-HYBRID-3.0-0 X1-HYBRID-3.0-M X1-HYBRID-3.7-0 X1-HYBRID-3.7-M X1-HYBRID-5.0-0 X1-HYBRID-5.0-M X1-HYBRID-6.0-0 X1-HYBRID-6.0-M X1-HYBRID-7.5-0 X1-HYBRID-7.5-M

DC INPUT		4500	5500	7500	9000	10000
Max. PV array input power [Wp]		4500	5500	7500	9000	10000
Max. PV input voltage [V]		600	600	600	600	600
Start output voltage [V]		90	90	90	90	90
Nominal input voltage [V]		360	360	360	360	360
MPP voltage range [V]		70~550	70~550	70~550	70~550	70~550
No. of MPP trackers/strings per MPP tracker		21(21)	21(21)	21(21)	21(21)	21(21)
Max. input current(input A/input B) [A]		16/16	16/16	16/16	16/16	16/16
Max. short circuit current(input A/input B) [A]		18/18	18/18	18/18	18/18	18/18

AC INPUT & OUTPUT

Nominal AC output power [W]	3000	3680	5000	6000	7500(6900 for PEA)
Max. AC output apparent power [VA]	3300	3680	5000	6000	7500(7300 for PEA)
Max. AC output current [A]	144	16	23(20 for DE-21 for ALI)	28.6	32.6(33 for PEA)
Max. AC input apparent power [VA]	6300	7360	9200	9200	9200
Max. AC input current [A]	274	32	40	40	40
Nominal AC voltage [V]		180~270			
Nominal grid frequency/Grid frequency range [Hz]		50/60			
Displacement power factor		0.8 leading~0.8 lagging			
THDI (rated power) [%]		<2			

BATTERY DATA

Battery type	Litho battery/Lead-Acid Battery				
Battery voltage range [V]	80~480				
Max. continuous charge/discharge current [A]	30				

ES/OFF-GRID OR BACK-UP OUTPUT (WITH BATTERY)

Nominal output power [W]	3000	3680	5000	6000	7500
Peak apparent power [VA]	3600 1h	4416 1h	6000 1h	7200 10min	7500
Max. continuous current [A]	13	16	21.7	26.1	32.6
Nominal voltage[V], Frequency [Hz]	230, 50/60				
Switch time [ms]	Internal switch <10, external switch <100				
Parallel operation	YES				

SYSTEM DATA

Max. efficiency [%]		97.6		
Euro efficiency [%]		97.0		
Battery charged/discharge efficiency [%]*1		97.0/97.0		
Standby consumption [W]@Night		<3		
Degree of protection		IP65		
Operating temperature range (°C)		-35~+60 (derating at 45°C)		
Max. operation altitude [m]		<3000		
Humidity [%]		0~100		
Typical noise emission [dB]	<30	<30	<30	<45
Storage temperature (°C)	-40~+65			
Dimensions(WxHxD) [mm]	482*417*181			
Net weight [kg]	24	24	24	25
Cooling concept	Nature cooling	Nature cooling	Nature cooling	Smart cooling
Communication interfaces	CT / Meter(optional) / External control (RS485) / Pocket series (optional) / DRM / USB Upgrade/ NTC			

STANDARD

Safety	EN/IEC62109-1/-2
EMC	EN61000-6-1/2/3/4/EN61000-3-2/3/11/12
Certification	VDE4105 /CS9 /CS8 /AS4777 / EN50549 / CEI 0-21 /IEC61721/RD1699/JNE 206007-1/NRS 097-2/VDEN0124/PEA and so on

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