

# X1-HYBRID G4

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

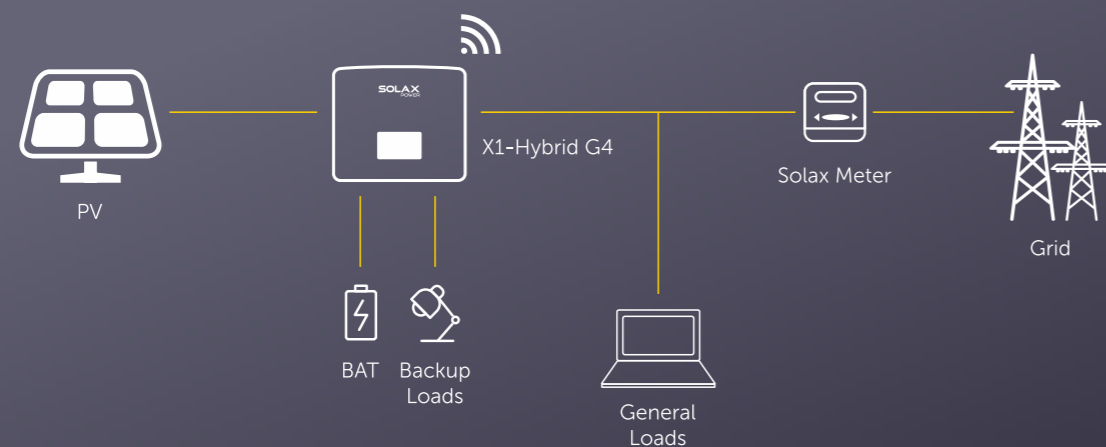
SINGLE-PHASE  
3.0~7.5kW

## Features

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



## SOLUTION DESIGN



# X1-HYBRID G4

## SINGLE-PHASE

	X1-HYBRID-3.0-D X1-HYBRID-3.0-M	X1-HYBRID-3.7-D X1-HYBRID-3.7-M	X1-HYBRID-5.0-D X1-HYBRID-5.0-M	X1-HYBRID-6.0-D X1-HYBRID-6.0-M	X1-HYBRID-7.5-D X1-HYBRID-7.5-M
<b>DC INPUT</b>					
Max. PV array input power [Wp]	4500	5500	7500	9000	10000
Max. PV input voltage [V]	600	600	600	600	600
Startup voltage [V]	60	60	60	60	60
Nominal input voltage [V]	360	360	360	360	360
MPP tracker voltage range [V]	70~550	70~550	70~550	70~550	70~550
No. of MPP trackers/Strings per MPP tracker	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)
Max. input current(input A/input B) [A]	14/14	14	14/14	14	14/14
Max. short circuit current(input A/input B) [A]	16/16	16	16/16	16	16/16
<b>AC INPUT &amp; OUTPUT</b>					
Nominal AC output power [W]	3000	3680	5000 (4600 for DE, 4999 for AU)	6000	7500(6900 for PEA)
Nominal AC output current [A]	13	16	21.7	26.1	32.6
Max. AC output apparent power [VA]	3300	3680	5500 (4600 for DE, 4999 for AU)	6600	7500(7300 for PEA)
Max. AC output current [A]	14.4	16	23.9(20 for DE, 21.7 for AU)	28.6	32.6(33 for PEA)
Max. AC input apparent power [VA]	6300	7360	9200	9200	9200
Max. AC input current [A]	27.4	32	40	40	40
Nominal AC voltage [V]	220/230/240				
Nominal grid frequency/Grid frequency range [Hz]	50/60				
Displacement power factor	0.8 leading~0.8 lagging				
THDi (rated power) [%]	<2				
<b>BATTERY DATA</b>					
Battery type	Li-ion battery				
Battery voltage range [V]	80~480				
Max. continuous charge/discharge current [A]	30				
<b>EPS(OFF-GRID OR BACK-UP) OUTPUT (WITH BATTERY)</b>					
Nominal output power [W]*1	3000	3680	5000	6000	7500
Peak apparent power [VA]*1	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				
THDv (Linear Load) [%]	<2				
Switch time [ms]	internal switch <10, external switch <100				
Parallel operation	YES				
<b>SYSTEM DATA</b>					
Max. efficiency [%]	97.6				
Euro. efficiency [%]	97.0				
Battery charge/discharge efficiency [%]	97.0/97.0				
Standby consumption [W] @Night	<3				
Ingress protection	IP65				
Operating temperature range [°C]	-35~+60 (derating at 45°C)				
Max. operation altitude [m]	<3000				
Humidity [%]	0~100 (non-condensing)				
Typical noise emission [dB]	<30	<30	<30	<30	<45
Storage temperature [°C]	-40~70				
Dimensions(WxHxD) [mm]	482*417*181				
Weight [kg]	24	24	24	24	25
Cooling concept	Nature cooling	Nature cooling	Nature cooling	Nature cooling	Smart cooling
Communication interfaces	CT/ Meter(optional)/ External control RS485/ Pocket series (optional)/ DRM/ USB Upgrade				
<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/RD1699/UNE 206007-1/NRS 097-2/VDE0124/PEA and so on				