

# X3-HYBRID

D:With DC switch

N:Without DC switch

THREE-PHASE  
HYBRID INVERTER

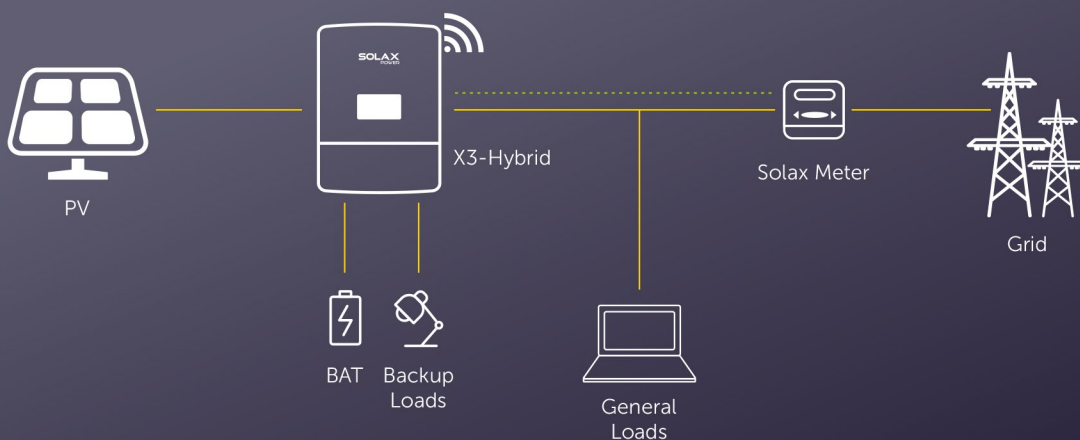
5.0~10kW



## Features

- 150% PV oversized and 110% overload output in on-grid situation
- IP65 protection level
- Lithium & Lead-acid battery compatible
- On & Off-grid parallel function
- VPP ready, ancillary service in power market
- Three-phase unbalanced output
- Maximum 12A DC input current, support for more power solar panel
- Less energy loss on battery to inverter
- Remote upgrade and control
- Working temperature: -20~+60°C

## SOLUTION DESIGN



# X3-HYBRID

## THREE-PHASE

X3-HYBRID-5.0-D-E(C)  
X3-HYBRID-5.0-N-E(C)

X3-HYBRID-6.0-D-E(C)  
X3-HYBRID-6.0-N-E(C)

X3-HYBRID-8.0-D-E(C)  
X3-HYBRID-8.0-N-E(C)

X3-HYBRID-10.0-D-E(C)  
X3-HYBRID-10.0-N-E(C)

### DC INPUT

Max. PV array input power [Wp]	7500	9000	12000	15000
Max. PV input voltage [V]	1000	1000	1000	1000
Start output voltage [V]	180	180	180	180
Nominal input voltage [V]	720	720	720	720
MPP voltage range [V]	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)
Max. input current (input A/input B) [A]	12/12	12/12	24/12	24/12
Max. short circuit current (input A/input B) [A]	14/14	14/14	28/14	28/14

### AC INPUT & OUTPUT

Nominal AC output power [W]	5000	6000	8000	10000
Max. AC output apparent power [VA]	5500	6600	8800	11000
Max. AC output current [A]	8.0	9.6	12.8	15.9
Max. AC input apparent power [VA]	5000	6000	8000	20000
Max. AC input current [A]	8.0	9.6	12.8	15.9
Nominal AC voltage [V]	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

Battery type	Li-ion battery/Lead-acid battery			
Battery voltage range [V]	160~800			
Max.continuous charge/discharge current [A]	25			

### EPS(OFF-GRID OR BACK-UP) OUTPUT (WITH BATTERY)

Nominal output power [W]	5000	6000	8000	10000
Peak apparent power [VA]	<10000,60s	<12000, 60s	<14000,60s	<15000, 60s
Max.continuous current [A]	7.2	8.7	11.6	14.5
Nominal voltage[V]; Frequency [Hz]	400/230; 380/220; 50/60			
Switch time [s]	<1.5			

### SYSTEM DATA

Max. efficiency [%]	97.8			
Euro. efficiency [%]	97.0			
Euro battery discharge efficiency [%]	95.7			
MPPT efficiency [%]	99.90			
Standby consumption [W] @Night	<25 for hot standby, <3 for cold standby			
Degree of protection	IP65			
Operating temperature range [°C]	-20 ~ +60 (derating at+45)			
Max. operation altitude [m]	<2000			
Humidity [%]	0~100			
Typical noise emission [dB]	40			
Storage temperature [°C]	-20~60			
Dimensions(WxHxD) [mm]	457×654×228			
Net weight [kg]	45			
Cooling concept	Nature cooling			
Communication interfaces	Ethernet/Meter/Pocket Wi-Fi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/DRM/USB/ISO alarm/CAN/BMS/NTC			

### STANDARD

Safety	EN/IEC62109-1/-2			
EMC	EN61000-6-1/2/3/4;EN61000-3-2/3/11/12			
Certification	VDE 0126-1-1 A1:2012 / VDE-AR-N 4105 / G98 / AS4777 / EN50549 / CEI 0-21 / and so on			

\*1: PV to BAT Max. efficiency 97.5%, BAT to AC Max. efficiency 96.5%