

X3-Hybrid-D/M

5.0kW/6.0kW/8.0kW 10.0kW/12.0kW/15.0kW

For More Informations Contact Us

On & Off grid parallel use

Unbalanced output supported

Inverter on&off gird parallel to support higher power loads

Prevent voltage imbalance when using high-power electrical appliances

www.solaxpower.com AU: +61 1300 476529

DE: +49 6142 4091664

Global: +86 571-56260008 UK: +44 2476 586998 NL:+31 (0) 852 737932

info@solaxpower.com service@solaxpower.com











X3-HYBRID G4 (THREE PHASE)

MACH March March		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-12.0-D X3-Hybrid-12.0-M	X3-Hybrid-15.0-D X3-Hybrid-15.0-M	
Mode	INPUT (DC)							
Mode March Mode		8000	10000	12000	15000	18000	18000	
Mode	·			1C	000			
Mode	-	-						
18-350 2001 2011		14/14	14/14	26/14	26/14	26/14	26/14	
Start control stage(V) 2015 2027 2272 2041 2020 202	Max. short circuit current (input A/input B) [A]	16/16	16/16	30/16	30/16	30/16	30/16	
No. of MP Todaker's 158 riging per MPP Todaker 2015 2015 2021 2021 2021 2021 2021 2021 2021 2021 2021 2021 2022 2020	MPPT voltage range[V]		180-950					
INPUT AC								
Mars AC proversity	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. AC current A 16.1 19.5 25.8 32.0 32.0 32.2	INPUT AC							
Normand gare voltage Affice Voltage rangel Voltage (1997) Voltage Affice (Max. apparent AC power[VA]	10000	12000	16000	20000	20000	20000	
Secretary of Page (1997) Secretary S	Max. AC current[A]	16.1	19.3	25.8	32.0	32.0	32.0	
Nominal AC power [VA]	Nominal grid voltage(AC voltage range)[V]		415/240; 400/230; 380/220					
Normal AC, conver (VA) 500 6000 8000 10000 12000 15000	Nominal grid Frequency/range[Hz]		50/60					
Max. apparent AC power (FM) 9500 6600 980° 1000 13200 15000 15	OUTPUT AC							
Noma ship disordage(AC voltage range)	Nominal AC power [VA]	5000	6000	8000	10000	12000	15000	
Nominal Agr Caurer I/A	Max. apparent AC power [VA]	5500	6600	8800	11000	13200	15000	
Nominal AC current (A)	Nominal grid voltage(AC voltage range) [V]			415/240; 400	/230; 380/220			
Max. AC current M	Nominal grid frequency/range [Hz]			50	/60			
Displacement power factor	Nominal AC current [A]	7.2	8.7	11.6	14.5	17.5	21.8	
THDL rated power fill States Stat	Max. AC current [A]	8.1	9.7			19.3	24.1	
Battery type	Displacement power factor	- · - <u></u>	0.8 leading 0.8 lagging					
Battery type	THDi, rated power [%]			<	:3			
Battery voltage range M 180.650 Recommended battery voltage M 400	OUTPUT DC (BATTERY)							
Recommended battery voltage[V]	Battery type			Lead-aci	d/Lithium			
Max. continuous charge/discharge current A	Battery voltage range [V]							
CANY,R5485 Reverse connect protection Yes Service Servic	Recommended battery voltage[V]	400						
Reverse connect protection	Max. continuous charge/discharge current [A]	30						
OFF-GRID OUTPUT (WITH BATTERY) MAX, continuous apparent power [VA] 5000 6000 8000 10000 12000 15000 Barde voltage(VI, Frequency [VA]) 7.2 8,7 11.6 1.4.5 17.5 21.8 Peak apparent power [VA] 7.20 8,7 11.6 1.4.5 17.5 21.8 Peak apparent power [VA] 7.500 60 9000 60 12000 60 15000 60 1	Communication interfaces	CAN/RS485						
MAX. continuous apparent power VA S000 6000 8000 10000 12000 15000 Rated voltage V , Frequency Hz	Reverse connect protection	Yes						
Rated voltage[V].Frequency [Hz]	OFF-GRID OUTPUT (WITH BATTERY)							
MAX. continuous current [A] 7.2 8.7 11.6 14.5 17.5 21.8	MAX. continuous apparent power [VA]	5000	6000			12000	15000	
Peak apparent power [VA] Duration[s] 7500 60 9000 60 12000 60 15000 60 15000 60 15000 60	Rated voltage[V],Frequency [Hz]			400/230\	/AC; 50/60			
Changeover time [ms]	MAX. continuous current [A]							
THDv, linear Load	Peak apparent power [VA] Duration[s]	7500 60	9000 60			15000 60	15000 60	
### EFFICIENCY MPPT efficiency [¾] 99.9 Euro efficiency [¾] 99.7 Max. efficiency [¾] 98.0 Battery charge/discharge efficiency [¾] 98.5/97.0 **Standby consumption (Night) [W]	Changeover time [ms]							
MPPT efficiency % 99.9	THDv, linear Load [%]			<	:3			
Euro efficiency % 97.7 Max. efficiency % 98.0 Battery charge/discharge efficiency % 98.5/97.0 POWER CONSUMPTION Standby consumption (Night) W	EFFICIENCY							
Max. efficiency [⅓] 98.0 Battery charge/discharge efficiency [⅙] 98.5/97.0 POWER CONSUMPTION Standby consumption (Night) [W] <20W for hot standby,<3W for cold standby STANDARD Safety EC62109-1/IEC62109-2 EMC EN61000-6-1/EN61000-6-2/EN61000-6-3 Certification VDE 0126-1-1 A1:2012 / VDE-AR-N 4105 / G98 / G99 / AS4777 / EN 50549 / CEI 0-21 ENVIRONMENT LIMIT Degree of protection(according to IEC60529) IP65 Operating temperature range [°C] -35~+60 (derating at +45, charge derating at +35) Max. operation altitude [m] -35~+60 (derating at +45, charge derating at +35) Humidity [½] -35~+60 (derating at +45, charge derating at +35) Max. operation altitude [m] -35~+60 (derating at +45, charge derating at +45	MPPT efficiency [%]							
Battery charge/discharge efficiency % 98.5/97.0	Euro efficiency [%]							
POWER CONSUMPTION Standby consumption (Night) [W]	Max. efficiency [%]							
Standby consumption (Night) [W] <20W for hot standby,<3W for cold standby STANDARD Safety IEC62109-1/IEC62109-2 EMC EN61000-6-1/EN61000-6-2/EN61000-6-3 Certification VDE 0126-1-1 A1:2012 / VDE-AR-N 4105 / G98 / G99 / AS4777 / EN 50549 / CEI 0-21 ENVIRONMENT LIMIT Degree of protection/according to IEC60529) IP65 Operating temperature range [°C] -35~+60 (derating at +45, charge derating at +35) Max. operation altitude [m] -35~+60 (derating at +45, charge derating at +35) Humidity [%] 0-100 (condersing) Storage temperature [°C] -35~+60 60 <td>Battery charge/discharge efficiency [%]</td> <td colspan="6">98.5/97.0</td>	Battery charge/discharge efficiency [%]	98.5/97.0						
STANDARD	POWER CONSUMPTION							
EC62109-1/IEC62109-2 EMC	Standby consumption (Night) [W]		<	20W for hot standby	v,<3W for cold standb	ру		
EMC EN61000-6-1/EN61000-6-2/EN61000-6-3 Certification VDE 0126-1-1 A1:2012 / VDE-AR-N 4105 / G98 / G99 / AS4777 / EN 50549 / CEI 0-21 ENVIRONMENT LIMIT Degree of protection(according to IEC60529) Operating temperature range [°C] -35~+60 (derating at +45, charge derating at +35) Max. operation altitude [m] <3000 Humidity [%] 0-100 (condersing) Storage temperature [°C] -35~+60 Typical noise emission [dB] 40 40 40 40 60 60 DIMENSION AND WEIGHT Dimensions(WxHxD) [mm] 482*417*181 Weight[kg] 30 Cooling concept Natural Natural Natural Natural Fan Fan Topology Communication interfaces Meter/ CT, external control RS485, Pocket series (optional), DRM,USB LCD display Backlight 20*4 character	STANDARD							
EMC EN61000-6-1/EN61000-6-2/EN61000-6-3 Certification VDE 0126-1-1 A1:2012 / VDE-AR-N 4105 / G98 / G99 / AS4777 / EN 50549 / CEI 0-21 ENVIRONMENT LIMIT Degree of protection(according to IEC60529) Operating temperature range [°C] -35~+60 (derating at +45, charge derating at +35) Max. operation altitude [m] <3000 Humidity [%] 0-100 (condersing) Storage temperature [°C] -35~+60 Typical noise emission [dB] 40 40 40 40 60 60 DIMENSION AND WEIGHT Dimensions(WxHxD) [mm] 482*417*181 Weight[kg] 30 Cooling concept Natural Natural Natural Natural Fan Fan Topology Communication interfaces Meter/ CT, external control RS485, Pocket series (optional), DRM,USB LCD display Backlight 20*4 character	Safety							
Certification VDE 0126-1-1 A1:2012 / VDE-AR-N 4105 / G98 / G99 / AS4777 / EN 50549 / CEI 0-21 ENVIRONMENT LIMIT Degree of protection(according to IEC60529) Operating temperature range [°C] Max. operation altitude [m] Humidity [%] Storage temperature [°C] Typical noise emission [dB] Dimensions(WxHxD) [mm] Weight[kg] Cooling concept Natural Natural Natural Natural Natural Non-isolated Communication interfaces Meter/ CT, external control RS485, Pocket series (optional), DRM,USB LCD display								
ENVIRONMENT LIMIT Degree of protection(according to IEC60529) IP65 IP65 Operating temperature range [°C] -35~+60 (derating at +45, charge derating at +35) Max. operation altitude [m] = 3000 Humidity [%] 0-100 (condersing) Storage temperature [°C] -35~+60 Typical noise emission [dB] 40 40 40 40 60 60 DIMENSION AND WEIGHT 482*417*181 Weight[kg] 30 Cooling concept Natural Natural Natural Natural Fan Fan Topology Non-isolated Communication interfaces Meter/ CT, external control RS485, Pocket series (optional), DRM,USB LCD display Backlight 20*4 character	-							
Degree of protection(according to IEC60529)								
Operating temperature range (°C) Max, operation altitude [m] Humidity [%] Storage temperature (°C) Typical noise emission [dB] DIMENSION AND WEIGHT Dimensions(WxHxD) [mm] Weight[kg] Cooling concept Natural Negricology Communication interfaces Meter/ CT, external control RS485, Pocket series (optional), DRM,USB LCD display				IP	165			
Max. operation altitude [m] ≤3000 Humidity [%] 0-100 (condersing) Storage temperature [°C] -35~+60 Typical noise emission [dB] 40 40 40 40 60 60 DIMENSION AND WEIGHT Dimensions(WxHxD) [mm] 482*417*181 482*417*								
Humidity % O-100 (condersing) Storage temperature °C								
Storage temperature [°C] Typical noise emission [dB] 40 40 40 40 40 40 60 60 DIMENSION AND WEIGHT Dimensions(WxHxD) [mm] Weight[kg] Cooling concept Natural Natural Natural Natural Non-isolated Communication interfaces LCD display Storage temperature [°C] 40 40 40 40 40 40 60 60 60 60 60 60 60 60 60 60 60 60 60								
Typical noise emission [dB] 40 40 40 40 60 60 DIMENSION AND WEIGHT Dimensions(WxHxD) [mm] 482*417*181 Weight[kg] 30 Cooling concept Natural Natural Natural Natural Natural Natural Fan Fan Topology Communication interfaces Meter/ CT, external control RS485, Pocket series (optional), DRM,USB LCD display Backlight 20*4 character								
DIMENSION AND WEIGHT Dimensions(WxHxD) [mm] 482*417*181 Weight[kg] 30 Cooling concept Natural Natural Natural Fan Fan Topology Non-isolated Communication interfaces Meter/ CT, external control RS485, Pocket series (optional), DRM,USB LCD display Backlight 20*4 character		40	40			60	60	
Dimensions(WxHxD) [mm] 482*417*181 Weight[kg] 30 Cooling concept Natural Natural Natural Fan Fan Topology Non-isolated Communication interfaces Meter/ CT, external control RS485, Pocket series (optional), DRM,USB LCD display Backlight 20*4 character				-				
Weight[kg] 30 Cooling concept Natural Natural Natural Natural Fan Fan Topology Non-isolated Communication interfaces Meter/ CT, external control RS485, Pocket series (optional), DRM,USB LCD display Backlight 20*4 character				192*/	17*101			
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Topology Non-isolated Communication interfaces Meter/ CT, external control RS485, Pocket series (optional), DRM,USB LCD display Backlight 20*4 character		 Natural	Natural			Fan	Fan	
Communication interfacesMeter/ CT, external control RS485, Pocket series (optional), DRM,USBLCD displayBacklight 20*4 character			radulat			7.011	1 311	
LCD display Backlight 20*4 character			Meter/ CT ext			nal) DRM USB		
	Standard warranty [years]		10					