



X1-AC

3.0kW/3.6kW/4.6kW/5.0kW

Features:

- Natural Cooling, quiet and low maintenance
- Max Efficiency up to 97%
- Multiple protection: RCD, isolation, over voltage
over temperature, earth protection, short-circuit protection, etc
- Compatible with High-voltage batteries
- Transformerless design with software and hardware protection.



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X1-AC-3.0
X1-AC-3.6
X1-AC-4.6
X1-AC-5.0

OUTPUT AC				
Nominal AC power [VA]	3000	3680	4600	4999
Max. apparent AC power [VA]	3000	3680	4600	4999
Rated grid voltage (range) [V]	220/230/240 (180 to 280)			230/240 (180 to 280)
Rated grid Frequency[Hz]	50/60			
Nominal AC current[A]	13	16	20	21.7
Max. AC current[A]	13.6	16.8 (16 for G83)	21	21.7
Max. overcurrent protection[A]	45			
Displacement power factor	0.8 leading to 0.8 lagging			
THDi, rated power [%]	<2			
Load control	Optional			
INPUT AC				
Nominal AC power[VA]	3000	3680	4600	4999
Max. apparent AC power[VA]	3000	3680	4600	4999
Rated grid voltage(range)[V]	220/230/240 (180 to 280)			
Rated grid frequency[Hz]	50/60			
Nominal AC current[A]	13	16	20	21.7
Max.AC current[A]	13.6	16.8 (16 for G83)	21	21.7
Max. short current(Isc)[A]	45			
Displacement power factor	0.8 leading to 0.8 lagging			
BATTERY				
Battery type	Lithium/Lead-acid battery			
Battery voltage range[V]	70-400			
Recommended battery voltage[V]	300			
Rated charge/discharge current[A]	25			
Max. charge/discharge current[A]	35	35	30	30
Communication interfaces	CAN			
Reverse connect protection	Yes			
EFFICIENCY				
Max. efficiency	97.00			
Max. Battery charge efficiency (AC to BAT)(@full load) [%]	97.00			
Max. Battery discharge efficiency (BAT to AC)(@full load) [%]	97.50			
SAFETY & PROTECTION				
Over/under voltage protection	Yes			
DC isolation protection	Yes			
Grid protection	Yes			
DC injection monitoring	Yes			
Residual current detection	Yes			
Anti-islanding protection	Yes			
Over load protection	Yes			
Over heat protection	Yes			
General Data				
Dimension [W/H/D](mm)	430*341.5*143			
Dimension of packing [W/H/D](mm)	554*446*259			
Net weight [kg]	15.5	15.5	16.3	16.3
Gross weight [kg]	18.5	18.5	19.3	19.3
Installation	Wall-mounted			
Operating temperature range[°C]	-20~+60 (derating at 45)			
Storage temperature [°C]	-20~+60			
Storage/Operation relative humidity	0~100%, condensing			
Altitude [m]	≤2000			
Ingress Protection	IP65(for outdoor use)			
Protective Class	I			
Over Voltage Category	III(MAINS), I(DC)			
Pollution Degree	III			
Cooling	Natural			
Inverter Topology	Non-isolated			
Communication interface	RS485, Meter(optional), Wifi(optional), RF(optional), DRM, CAN, USB			
Certification	G83,G59			