

Three Phase

5KW To 33 KW

Built-in
SPD: Type II
(DC) & Type
III (AC)



Fan-Cooling
For Stable
Performance

Wifi/4G/
Local
Mode

Upto
40A Per
MPPT



In built SPD on
both side



Lower Start-up
Voltage 180V



Smart Fan
Cooling System



Ingress Protection
IP66



Remote Upgrade
and Maintenance



Anti Islanding
Protection



Higher AC Range
310V - 480V



Easier
Communication
with WIFI / 4G /
Local Mode



MPPT Efficiency
Up To 99%



Supported upto
800Wp Panel



High
Performance

Xwatt[®]
TRUST in every watt

XWATT ENERGY PRIVATE LIMITED

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THREE PHASE DATASHEET

Description	XW-5K	XW-6K	XW-8K	XW-10K	XW-12K	XW-15K	XW-20K	XW-25K	XW-30K	XW-33K
DC Input										
Max. PV array input power [Wp]	7500	9000	12000	15000	18000	22500	30000	37500	45000	49000
Max. PV input voltage [V]	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
Startup voltage [V]	180	180	180	180	180	180	180	180	180	180
Nominal input voltage [V]	650	650	650	650	650	650	650	650	650	650
MPP tracker voltage range [V]	180-1000	180-1000	180-1000	180-1000	180-1000	180-1000	180-1000	180-1000	180-1000	180-1000
No. of MPP trackers	2									
String per MPP tracker	1/1					1/2	2/2			
Max. PV input current [A]	20/20					20/30	30/30	40/40		
PV array short circuit current [A]	25/25					25/37.5	37.5/37.5	50/50		
AC OUTPUT										
Rated AC output power [W]	5000	6000	8000	10000	12000	15000	20000	25000	30000	33000
Max. AC output power [kVA]	5.5	6.6	8.8	11	13.2	16.5	22	27.5	33	36.3
Max. AC output current [A]	8.3	10	13.3	16.7	20	24	32	41	48	53
Nominal AC voltage / AC voltage range [Vac]	400 ; 310-480									
Nominal AC frequency / AC frequency range [Hz]	50 ; 45-55									
Power Factor	~ 0.99									
THDi (rated power) [%]	< 2 (Under Rated Power)									
SYSTEM DATA										
Max. Efficiency [%]	98.5									
Euro. Efficiency [%]	98									
Standby consumption [W] @Night	< 1									
Ingress protection	IP66									
Operating ambient temperature range [°C]	-30 to 60									
Max. operation altitude [m]	4000									
Relative humidity [%]	0 - 100									
Dimensions (W × H × D) [mm]	427 x 450 x 204									
Weight [kg]	15						18			
Cooling concept	Smart Fan Cooling									
Communication interfaces	RS 485									
Monitoring	Wifi / 4G / Local Mode									
PROTECTION										
Over / under voltage protection	YES									
DC reverse polarity protection	YES									
Short circuit protection	YES									
Output over current protection	YES									
Output over voltage protection	YES									
Insulation resistance monitoring	YES									
Grid monitoring	YES									
DC injection monitoring	YES									
Back feed current monitoring	YES									
Residual current detection	YES									
Anti-islanding protection	YES									
Over temperature protection	YES									
Integrated DC Switch	YES									
SPD (DC/AC)	DC Side Type II SPD / AC Side Type III SPD									
STANDARD										
Certifications	BIS : IS 16221 (Part-2) : 2015 (IEC 62109 Part-2 : 2011) IS 16169 : 2019 (IEC 62116 : 2014) IS 17980 : 2022 (IEC 62891 : 2020)									
Warranty	8 Years*									