

Three Phase

80KW To 125KW

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



Fan-Cooling
For Stable
Performance

Wifi/GPRS/
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-80K	XW-90K	XW-100K	XW-110K	XW-125K
DC INPUT					
Max. PV array input power [kWp]	104	117	130	143	162.5
Max. PV input voltage [V]	1100				
Startup voltage [V]	180				
Nominal input voltage [V]	650				
MPP tracker voltage range [V]	200-1000				
No. of MPP trackers	8				8
String per MPP tracker	2/2/1/1/2/2/1/1				3/1/3/1/3/1/3/1
Max. PV input current per MPPT [A]	40/40/20/20/40/40/20/20				45/20/45/20/45/20/45/20
PV array short circuit current per MPPT [A]	50/50/25/25/50/50/25/25				56/25/56/25/56/25/56/25
AC OUTPUT					
Rated AC output power [kW]	80	90	100	110	125
Max. AC output apparent power [kVA]	88	99	110	121	137.5
Max. AC output current [A]	128	144	160	176	196
Nominal AC voltage / AC voltage range [V]	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 [%]	98.6	98.6	98.7	98.7	98.7
Euro efficiency [%]	98.1	98.1	98.1	98.2	98.2
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]	1160 x 611 x 286				
Weight [kg]	92				
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*				