

Three Phase

36KW To 60KW



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

Wifi/4G/
Local
Mode



Fan-Cooling
For Stable
Performance

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-36K	XW-40K	XW-45K	XW-50K	XW-60K
DC INPUT					
Max. PV array input power [kWp]	54	60	67.5	75	90
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	3		4		
String per MPP tracker	2/2/1		2/2/1/1		3/1/3/1
Max. PV input current per MPPT [A]	40/40/20		40/40/20/20		45/20/45/20
PV Array Short Circuit current per MPPT [A]	50/50/25		50/50/25/25		56/25/56/25
AC OUTPUT					
Rated AC output power [kW]	36	40	45	50	60
Max. AC output apparent power [kVA]	39.6	44	49.5	55	66
Max. AC output current [A]	56	66	72	80	96
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	98.7	98.6	98.6	98.7
Euro efficiency [%]	98.1	98.1	98.2	98.2	98.2
Standby consumption [W] @Night	< 1				
Ingress protection	IP66				
Operating ambient temperature range [°C]	-25 to 60				
Max. operation altitude [m]	4000				
Relative humidity [%]	0 – 100				
Dimensions (W × H × D) [mm]	460 x 476 x 228.5		610 x 564 x 218		
Weight [kg]	23		37		
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*				