

Single Phase Hybrid

3.0KW To 6.0KW



Works
On-Grid,
Off-Grid &
Hybrid

IP65
Rated

**Transformer
Less**

Runs
Without
Battery Or
Grid

4 MS
Auto Load
Switching



In built SPD on both side



Lower Start-up Voltage 110V



Fanless Natural Cooling System



Ingress Protection IP66



Remote Upgrade and Maintenance



Anti Islanding Protection



Higher AC Range Upto 290V



Easier Communication with WIFI / GPRS / 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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HYBRID SINGLE PHASE LV DATASHEET

Description	XWH-3.0K-LV	XWH-3.7K-LV	XWH-4.0K-LV	XWH-5.0K-LV	XWH-6.0K-LV
DC Input					
Max. PV array input power [Wp]	4500	5550	6000	7500	9000
Max. PV input voltage [V]	550				
Startup voltage [V]	110				
Nominal input voltage [V]	360				
MPP tracker voltage range [V]	80-520				
No. of MPP trackers	2				
String per MPP tracker	1/1				
Max. PV input current[A]	16/16				
PV Array Short Circuit current [A]	20/20				
AC INPUT AND OUTPUT (ON GRID)					
Rated AC output power [W]	3000	3680	4000	5000	6000
Max. AC output apparent power [VA]	3300	3680	4400	5000	6000
Max. AC output continuous current [A]	14.4	16	19.2	21.8	26.1
Nominal AC voltage [Vac]	220/230/240				
Max. AC input apparent power [VA]	6000	7360	8000	9200	9200
Max. AC input current [A]	26.1	32	34.8	40	40
Nominal AC frequency [Hz]	50				
Power Factor	~0.99				
THDi (rated power) [%]	< 3				
BATTERY					
Battery type	Lithium / Lead Acid				
Battery voltage range[V]	40-60				
Max. charge / discharge current[A]	75 / 75			120 / 120	
EPS(OFF GRID) OUTPUT (WITH BATTERY)					
Rated EPS output voltage[V]	230				
Rated EPS output frequency[Hz]	50				
Peak EPS output power[VA]	6000, 10s	7360, 10s	8000, 10s	10000, 10s	12000, 10s
Switchover time[ms]	< 4				
SYSTEM DATA					
Max. Efficiency [%]	97.6				
Euro. Efficiency [%]	97				
Ingress protection	IP 65				
Operating ambient temperature range [°C]	-25 to 60				
Max. operation altitude [m]	3000				
Relative humidity [%]	4 - 100				
Dimensions (W × H × D) [mm]	397 x 490 x 201				
Weight [kg]	16.5			17.3	
Cooling concept	Natural Cooling			Smart Fan Cooling	
Communication interfaces	USB / RS485				
Monitoring	Wifi / GPRS / Local mode				
PROTECTION					
Over / under voltage protection	Yes				
DC reverse polarity protection	Yes				
Back feed current monitoring	Yes				
Residual current detection	Yes				
Anti-islanding protection	Yes				
Over temperature protection	Yes				
Integrated DC Switch	Yes				
Surge Protection	DC Side Type II SPD / AC Side Type II 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	5 Years*				