

Technical Data

Model	Yourwatt-4.4kw/24V - 5.5kVA
Battery Input	
Battery Type	Lead acid or Li-ion
Battery Voltage(V)	24(20-30VDC)
Battery Charge/Discharge Current(A)	168
Charging Strategy for Li-Ion	Self-Adaption to BMS
PV Input	
Max.PV Input Power(W)	7040
Max.PV Input Voltage(V)	500
Start-up Voltage(V)	125
PV Input Voltage Range (V)	370 (125-500)
MPPT Input Range(V)	150-425
Max Operating PV Input Current(A)	15
Max.PV Input Short-Circuit Current(A)	18
No.of MPPT Trackers/No.of Strings per MPPT Tracker	1/1
AC Input/Output	
Rated AC Input/Output Active Power(W)	4400
Max. AC Input/Output Apparent Power(VA)	4840
Peak Power (off-grid)(W)	2 times of rated power, 10S
Rated AC Input/Output Current(A)	19.1
Max.Continuous AC Passthrough(grid to load) (A)	29
Rate Input/Output Voltage(V)	220/230
Grid Connection Form	L+N+PE
Rate Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz
Power Factor Adjustment Range	0.8 leading-0.8 lagging
Total Current Harmonic Distortion THDi	THD<3%(Linear load <1.5%)
Equipment Protection	
Integrated	AC Output Overcurrent Protection,AC Output Overvoltage Protection,AC Output Short Protection,Thermal Protection,DC Terminal Insulation Impedance Monitoring,Ground Fault Current Monitoring,Island Protection Monitoring,DC Input Switch,Residual Current Detection (RCD)
Surge Protection Level	TYPE II(DC),TYPE II(AC)
Efficiency	
Max.Efficiency	97.60%
Euro Efficiency	96.50%
MPPT Efficiency	99%
Inerface	
Display	LCD+LED
Communication Interface	RS485,CAN
Monitor Mode	WIFI
General Data	
Operating Temperature Range	-40-60°C(>45°C derating)
Permissible Ambient Humidity	0-100%
Permissible Altitude	2000m
Noise	<55dB
Ingress Protection(IP) Rating	IP65
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC),OVC III(AC)
Cabinet size(W*H*D)(mm)	380*380*120(Excluding connectors and brackets)
Weight(kg)	10
Type of Cooling	Air Cooling
EMC/Safety Regulation	IEC/ED 62109-1 IEC/EN 62109-2,IEC/EN 61000-6-1, IEC/EN 61000-6-3

Single Phase Hybrid Inverter

**Yourwatt ZEN-X
Inverter 4.4kw/24V**



Product Features

- Upto20 PCS invertersparallelfor off-grid operation
- Charging and discharging current up to 168A
- 5 ms fast switching time
- Adaptive speed adjustment fan
- Super strong inductive load capacity
- Independent AC input port for diesel generator
- Support storing energy from diesel generator
- IP65 protection degree long lifespan