



IP66 High level protection



LCD Color Screen Operation



Dual back up output



AC couple to retrofit existing solar system



Single PV Operation Supported



UPS Switch Over time < 10ms



Wi-Fi Standard



Max 250A Charge/ Discharge Current



Support up to 6 unit in parallel



Multiple Battery Compatibility: Works with various battery technologies including lithium-ion and lead-acid

TECHNICAL SPECIFICATION

MODEL	ZING-TP66-12KW	ZING-TP66-15KW
Rated Power	12000VA/12000W	15000VA/15000W
BATTERY INPUT PARAMETERS		
Battery Type	Lithium or Lead-acid Battery	
Battery Voltage Range(V)	40~60	
Max. Charging Current (A)	250	280
Max. Disharging Current (A)	250	280
Lithium Battery Comm.	Self-adaption to BMS	
Number of Battery Inputs	1	
PV INPUT DATA		
Max. PV Input Power(W)	24000	30000
Max. PV Input Voltage(V)	1000	
MPPT Voltage Range(V)	200~800	
Start-up Voltage(V)	150	
Max. Current per MPPT (A)	36/18	36/20
Number of MPP Trackers	2	
AC GRID (INPUT AND OUTPUT)		
Max. Apparent Power (VA)	13200	16500
Rated Voltage (V)	380/400(3W+N+PE)	
Rated Frequency (Hz)	50/60	
Max. current (A)	20	25
Power factor(adjustable)	0.8 leading to 0.8 lagging	
AC LOAD OUTPUT (STAND ALONE)		
Rated Output Voltage (V)	380/400(3W+N+PE)	
Rated Output Frequency (Hz)	50/60	
Rated Output Current(A)	18.3/17.4	22.8/21.7
Rated Output Power (W)	12000	15000
Overload Capability (off grid)	>200% for 15 sec	
Output Power Factor(off grid)	0.8 leading to 0.8 lagging	
Output Current Harmonic Distortion	THD<3%(Nonlinear load); THD<1.5%(Linear load)	
EFFICIENCY		
Max efficiency (PV)	98.0%	
Max efficiency (Battery)	94.5%	
Europe efficiency	97.5%	
EQUIPMENT PROTECTION		
PV reverse polarity protection	Integrated	
PV insulation resistance detection	Integrated	
Residual current detection	Integrated	
Output overcurrent protection	Integrated	
Output short-circuit protection	Integrated	
Output overvoltage protection	Integrated	
General Parameters		
Operating Temperature (°C)	-25 ~+60 (derating above 45°C)	
Storage Temperature (°C)	-30~65	
Relative Humidity	0~95%	
Operating Altitude (m)	≤4000m(derating > 2000m)	
Cooling Method	Smart fan cooling	
Noise (dB)	<55dB	
Weight (kg)	37.3	40.7
Dimensions (W × H × D mm)	683*475*256	755*475*256
IP Rating	IP66	
Topology	High-frequency isolation (battery side)	
Safety / EMC Certification	IEC62109,IEC61000,IS16169 & IS16221(BIS)	
Grid Compliance	IEC61727,EN50549-1,VDE-4105,NRS-097-2-1,OVE-Richtilinie R25, UNE217001/2, Ordinance No.140	
Other Certifications	IEC61683, IEC62116,EN50530,IEC60068	