



Specifications
5/10 KVA

Rated Power	5 KVA Monophase	10 KVA Monophase
AC Input		
Voltage	230 VAC	
Selectable Voltage Range	110 ÷ 280 VAC	
Maximum Input Current	40	80
Frequency Range	50 hz - 60 Hz Autosensing	
Protection	VDR + Automatic Breaker	
Output		
AC Voltage regulation (Batt. Mode)	230 VAC ± 5%	
Output ThDv	<3% for linear load < 8% non linear load	
Efficiency Peak	90 ÷ 93 %	
Transfer Time	Zero Transfer Time	
Waweform	Pure Sinewawe	
Protection	Electronic limiting + Automatic Breaker	
Battery Pack		
Cell type Li(NiCoMn)O2	5 ,040 Wh usable capacity 4,535 Wh	10,000 Wh usable capacity 9,070 Wh
Battery Voltage	50,4 VDC	
Battery Protection	Built-in Battery Management System + Fuse	
Operating Environment		
Humidity	5 - 95% Relative Humidity not condensed	
Operating temperature	-10° C to 55° C	
Solar Input		
Solar charger type	1 X MPPT	2 X MPPT
Max . PV Array Open Circuit Voltage	145 VDC	
PV Array Voltage High Loss	145 VDC	
PV Array Voltage High Comeback	145 VDC	
PV Array Voltage Low Loss	Battery Voltage + 1V	
PV Array Voltage Low Back	Battery Voltage + 2V	
PV Array MPPT Voltage Range	60 ~ 115 VDC	
Min. PV Voltage	34 VDC	
PV Voltage Accuracy	± 2 V	
Wind Turbine Controller		
Rated Power	2 x 2000 W	
Wind dumpload rotate speed	500 R	
Wind pole logarithm (Pole)	Adjustable	
Wind dumpload voltage (Vmax)	60 V	
Dump load control mode	Over rotate speed limiting - Over voltage limiting - Over current limiting - PWM	
Charger		
System Voltage	48 VDC	
Wind / Solar Maximum charge current	50 ÷ 120 A	
AC charge current	60 A	120 A
DC Voltage Accuracy	± 0.1 %	
Over Temperature Protection	YES	
Overload , DC Short-circuit Protection	YES	
Prevent reserve current	YES	
Inverter		
Inverter Type	Double Conversion Zero time transfer	
Output Voltage Waweform	Pure Sine Wave	
Output Frequency	50 Hz 60 Hz Selectable	
Peak Efficiency	90%	
Overload Protection	5s Load > 150% , 10s Load 110% - 150%	
Surge Capacity	2 x rated power for 5 sec	
Nominal Dc Voltage	48 VDC	
Cold Start Voltage	46.0 VDC	
Interface		
Dry Contacts	Remote ON / OFF Fuel Generator	
Display	13" Touch screen monitor	
Mouse	Optical -Wireless	
Keyboard	On screen	
Internet connection	Internal Wi Fi system	
Standards		
Conduction / Radiation	IEC/EN 62040-2 Category C3	
Safety	IEC62040-1-1	
Certification	CE - SONCAP	

*Products specifications are subject to change without further notice