



**STATCON
ENERGIAA®**
Inspire • Innovate • Implement









HYBRID SOLAR INVERTER

1-3 KVA | 24V

3-5 KVA | 48V

BOXER HBD

THE OFFGRID INVERTER KILLER

-  Seamless changeover time
-  Battery-less operation on demand
-  Export power to grid at lean loads
-  20% Overloading on PV Side
-  Li+ compatible with brand selection
-  Runs heavy loads including 1.5T AC

HYBRID SOLAR INVERTER 1PH (GRID EXPORT WITH STORAGE)

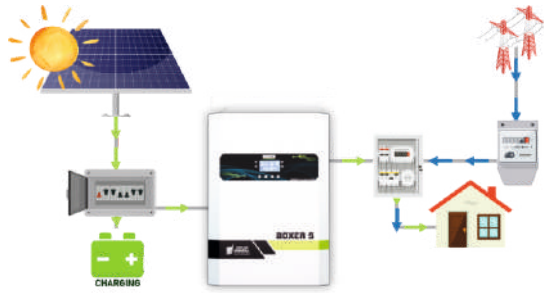
The smart consumer says, "Why pay for off grid, when hybrid is now at the same cost?"

The Boxer is a unique addition to the Indian solar industry, plagued with cheap and frequently failing foreign wall mounted products. Boxer has a galvanic isolation to protect from the grid variations and gives the consumer all benefits of a hybrid inverter, while being a sleek, efficient machine. With Lithium compatibility, it is set to bring about a revolution in Indian homes, craving for high power and better backups.

*Other customised ratings available on request



BOXER HBD THE OFFGRID INVERTER KILLER



Block Diagram of Installation

DID YOU KNOW... 5 OUT OF 10 CUSTOMERS ACTUALLY ASK FOR HYBRID SYSTEMS RATHER THAN GRID TIED SYSTEM?

Now avail subsidy on Hybrid Solar inverter system, with Lithium ion batteries or Lead acid, or any other battery under the PM SURYAGHAR MUFT BIJLI YOJANA

RATINGS	2000W/24V	2400W/24V	2500W/24V	3000W/24V	3kVA/48V	4kVA/48V	5kVA/48V
Model No.	BXR-HBD-024-2K500-1P-2.4M1	BXR-HBD-024-3K000-1P-2.9M1	BXR-HBD-024-3K125-1P-3.0M1	BXR-HBD-024-3K750-1P-3.6M1	BXR-HBD-048-03K 1P-3.6M1-TI-C01	BXR-HBD-048-04K 1P-4.8M1-TI-C01	BXR-HBD-048-05K 1P-06M1-TI-C01
A. MPPT CHARGER							
Type (Buck)	MPPT						
Max. PV Access power (kW)	4000W	4800W	5000W	6000W	4.5kW	6kW	7.5kW
Max. Input Power (kW)	2400W	2880W	3000W	3600W	3.6	4.8	6.0
Max. PV Strings in Parallel	3	3	3	4	3	4	6
Number of MPPT	1						
Max. Open Circuit PV Volts (Voc)	160V				190		
PV Short Circuit Current (Isc)	72A	72A	72A	96A	30A	40A	59A
MPPT Voltage Range (Vmp)	35-125V				75-160V		
PV DC Input Current (A)	48A	48A	48A	64A	27A	36A	54A
Max. MPPT Charging Efficiency (%)	92%				94%		
B. SOLAR INVERTER							
Nominal Capacity (kVA)	2000W	2400W	2500W	3000W	3kVA	4kVA	5kVA
Output Current (A)	8.7A	10.5A	10.9A	13.2A	13.0A	17.4A	21.7A
Output Voltage/Freq/Phase	230V(±2%)/50Hz/1P+N						
Power Factor (PF)	0.8-Unity						
Max. Conversion Efficiency (%)	88%				85%		
Over Loads: 60sec/30sec/5sec*	101-110%111-120% /121-150%/>150% Immediate trip *						
Auto Bypass Feature	Provided						
Anti Islanding/Power Export to Grid	Provided (As per IEC 62116 & IEC 61727)						
C. BATTERY INPUT							
Battery Type	VRLA/ Lead-Acid/Lithium-ion/NiCd						
Nominal Battery Voltage/ Range (V)	24V/24-30V				48V/48-60V		
Max. Discharging Current (A)	98A	100A	122.5A	147A	71A	94A	118A
D. GRID INPUT							
Grid Nominal Voltage/ Range (V)	230V/184 - 253V AC				230V/ 184 - 253V		
Grid Rated Frequency/ Range (Hz)	50Hz/47.5 - 50.5Hz						
Grid Rated Input Current (A)	17.4A	21A	21.8A	25A	24.5A	32.6A	40.8A
Max Grid Import Power (W)	4000W	4800W	5000W	5750W	4.5kVA	6kVA	7.5kVA
E. PROTECTIONS & DISPLAY PARAMETERS							
	PROTECTIONS				DISPLAY PARAMETERS		
PV Side	Reverse Polarity, PV Power Limit, Surge Protection (MOV), O/U voltage				Voltage, Current, Power, Cumulative Energy, Today Energy		
Battery Side	Reverse Polarity, O/U Voltage, Current Limit				Voltage, Current, Battery State		
Grid Side	O/U Voltage, O/U Frequency, Surge Protection (MOV)				Voltage, Frequency, Power, Power Factor, Export kWh, Import kWh		
Load Side	Overloads, Short circuit				Voltage & Current, Frequency, Power, Load Percentage		
System Protection	Over Temperature				Mode of Operation, Active Faults		
F. MISCELLANEOUS							
Switchgear Protection	MCB/MCCB/Fuse						
LED Indications	Power On, Inverter On, Solar Present/Charging, Load On Grid/Charging, Battery Low, System Trip						
Data Port (RS485/RS 232)	Optional (Available on Request)						
Remote Monitoring	Optional through GPRS based Modem/WiFi						
Ingress Protection	IP 20 (Indoor Type)						
Over Voltage Category	VOC II (DC), VOC III (AC)						
Inverter Topology	Isolation						
Cooling Method	Force Cooling (Temp Controlled)						
Operating Temperature	0-50 degrees (without Derating)						
Humidity	Max. 95% Non-Condensing						
Altitude	1000m above sea level						