



HYBRID SOLAR INVERTER

BOXER HBD

THE OFFGRID INVERTER KILLER

- Seamless changeover time
- A 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

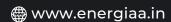


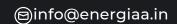
HYBRID SOLAR INVERTER 1PH (GRID EXPORT WITH STORAGE)

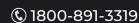
The smart consumer says, "Why pay for off grid, when hybrid is now at the same cost?"

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



Remote Monitoring
Ingress Protection

Cooling Method

Humidity

Altitude

Operating Temperature



Block Diagram of Installation

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

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

RATINGS	1KVA/48V	2KVA/48V	3KVA/48V	4KVA/48V	5KVA/48V	
MODEL NO.	BOX-048-01K-1P	BOX-048-2K-1P	BOX-048-03K-1P	BOX-048-04K-1P	BOX-048-05K-1P	
A.MPPT CHARGER						
Type (Buck)	МРРТ					
PV Normal Capacity (KWp)	1.2	2.4	3.6	4.8	6	
Max PV Strings in parallel	1	2	3	4	5	
No of MPPT Channel/No. of Input	1/1					
Max. Open Circuit Voltage (Voc)	190					
MPPT Tracking Range (Vmp)	75-160					
Max Output Current (A)	23	46	71	94	118	
Peak Charging Efficiency	≥92%			≥94%		
B. SOLAR INVERTER						
Nominal Capacity	1KVA	2KVA	3KVA	4KVA	5KVA	
Output Current(A)	3.5	7	10	14	17	
Battery Voltage(V)	48					
Output Voltage/Freq/Phase	230V(± 2%) / 50Hz/1P+N					
Load Power Factor	0.8- unity					
Peak Efficiency	>88 %					
Over Loads: 120 sec/ 5 sec/ 2.5 sec	101-110%/111-150% /151-200%/>200% Immediate trip					
Auto Bypass Feature	Provided					
Anti Islanding/Power Export to Grid	Provided (As per IEC 62116 & IEC 61727)					
C. GRID CHARGER						
Grid Voltage Range	230V (+10% & -20%)					
Grid freq Range	50Hz (+5% & -5%)					
Max Grid Import Power	1.5KVA	3KVA	4.5KVA	6KVA	7.5KVA	
D. PROTECTIONS & DISPLAY PARMETERS						
	PROTECTIONS			DISPLAY PARAMETERS		
PV Side Battery Side Crid Side Load Side System Protection	Reverse Polarity, PV Power Limit, Surge Protection (MOV),O/P voltage Reverse Polarity, O/U Voltage, Current Limit O/U Voltage, O/U Frequency, Surge Protection (MOV) Overloads, Short circuit, Surge Protection (MOV) Over Temperature			Voltage, Charger O/P Amps, Power, Cumulative Energy Voltage, Current, Battery State Phase Voltage, Frequency, Power, Power Factor Voltage & Current, Frequency, Power, Export kWh Mode of Operation, Active Faults		
E. MISCELLANEOUS						
Switchgear Protection	MCB/MCCB provided on PV, Battery, Load & Grid path					
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)					

Optional through GPRS based Modem/WIFI

IP-20 (Indoor Type)

Force Cooling (Temp Controlled)

0-50 degrees (without Derating)

Max. 95% Non-Condensing

1000m above sea level