

Online UPS

## Pelican 3000M Bi-directional Inverter 10 to 45 KVA



### Special Features

- Multiple 32 bit DSP controller
- Inbuilt IGBT based battery charger
- Space Vector Modulation
- High efficiency
- True Bi-directional Inverter
- Modular construction gives higher MTTR
- Basic module is 10 kW & 15 kW
- Changeover time < 5 ms
- Battery charging through Grid up to 100%
- Inbuilt isolation transformer for galvanic isolation
- 128 x 64 Graphics display
- Input current balancing which forces balanced current on mains, even if, load current is unbalanced
- Load voltage balancing, even if, mains voltage is unbalanced
- In case of absence of any input phase, that particular phase is created by the inverter to feed the load



## *Pelican* Bi-directional Inverter for smarter, efficient and reliable energy conversion Quality Power Protection

For the critical power requirements in Industrial,  
IT, Commercial, Communication and Office environment

State-of-the-art R&D and Manufacturing facility

Service centres across India



## Bi-directional Inverter - 10 to 45 kVA

Bi-directional Inverter Three phase Output

SPECIFICATIONS	System rating (kVA)	10	15	20	30	45	
	<b>Mains Input</b>						
	Input Supply	415 VAC , 50 Hz (-20%,+15%), 3 Phase 4 Wire					
	<b>Battery</b>						
	Battery Voltage	48V (Optional 96V, 120V)					
	Active Filtering during load on mains (Load Harmonic corrections)	THDi up to 3 % & Power Factor $\geq$ 0.99					
	<b>Inverter</b>						
	Power in KW	8	12	16	24	36	
	Switching Element	IGBT					
	Control	32 Bit DSP controlled					
Nominal Output Voltage	415 VAC L-L, 3 Phase 4 Wire						
Nominal Frequency	50 Hz						
Output Waveform	Sine Wave						
Load power Factor	0.6 leg to 1 (within kVA and kW rating)						
Voltage regulation	$\pm$ 2%						
Voltage Stability in dynamic condition	Complies with IEC/EN 62040-3, Class 1						
Output voltage distortion with 100% linear load	< 2%						
Change overtime	< 5ms						
Inverter efficiency	Up to 90%						
Protection degree	IP 20						
Colour	RAL 7016, Texture						
Cooling	Forced Air						
Galvanic Isolation	Inbuilt isolation transformer at inverter output						
Protection	Under / Over voltage for input, Output & Battery Output overload, Short circuit, Over temperature						
Display Parameter	1. Battery - Voltage, Current 2. Mains - Voltage, Current 3. Inverter -Voltage, Current, Inc heat sink temp, Power, Frequency						
Indications	Battery on Float , Battery on Boost, Battery low, Battery Charging / Discharging, Mains Switch ON, Inverter Switch ON, Mains ON, Load ON, Inverter ON, Manual Bypass ON						
<b>Environment</b>							
Temperature Operating	0 -40°C						
Max. Relative humidity @ 25° C (non condensing)	Up to 95%						
Acoustic Noise @ 1m(Ref. ISO 3746)	$\leq$ 62 dBA	$\leq$ 65 dBA	$\leq$ 68 dBA				
Max. Altitude above sea level without de-rating	1000 m						
<b>Standard Compliance</b>							
Testing	IEC 62040-3						

The information contained in this publication is subject to change without prior notice

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