

# Pelican 3000



## Bi-directional Inverter

10 to 80 kVA Three Phase Output

### Special Features

- Multiple 32 bit DSP controller
- Inbuilt IGBT based battery charger
- Changeover time < 5 ms
- Space Vector Modulation
- 128 x 64 Graphics display
- High efficiency
- True Bi-directional Inverter
- Modular construction gives higher MTTR (above 30 kVA)
- Battery charging through Grid up to 100%
- Inbuilt isolation transformer for galvanic isolation
- Paralleling feature enabled to enhance power capacity





Technical Specifications - Pelican 3000								
System Rating (KVA)	10 KVA	20 KVA	25KVA	30KVA	40KVA	50KVA	60KVA	80KVA
<b>Mains Input :-</b>								
Input Supply Phases	3Phase 4 Wire							
Nominal Voltage & Voltage Range	415VAC (+15%, -15%), 50Hz							
<b>Battery</b>								
Battery Voltage	240V		360V				480V	
Max. Battery Charging Current	10A	20A	25A	30A	40A	45A	55A	75A
<b>Inverter</b>								
Switching Element	IGBT							
Control	32 bit DSP controlled							
Nominal Output Voltage	400/415VAC L-L							
Output Supply Phases	3Phase 4 Wire							
Power Factor	0.8							
Output Waveform	Sine wave							
Nominal Frequency (Hz)	50Hz							
Load Power Factor	0.6 lag to 1 ( Within KVA and KW rating)							
Voltage regulation	± 2%							
Voltage Stability in dynamic condition	Complies with IEC/EN 62040-3, Class 1							
Output voltage distortion with 100% linear load	< 2%							
Overload at nominal output voltage for 10 minutes	125%							
Overload at nominal output voltage for 10 Sec	150%							
Overload at nominal output voltage for 450 mSec	200%							
Inverter efficiency @ nominal Battery Voltage with resistive load of 100% (Ref. STD IEC 61683)	Up to 90%		Upto 92%		Up to 93.5%			
Crest Factor	3:1							
Noise @ 1 meter (dBA ± 2dBA)	<60dBA							
Protection degree with open doors	IP20							
Cooling	Forced Air							
Colour	RAL 7016							
Dimension (WxDxH) mm	500 x 800 x 1080mm (10kVA to 30kVA) 600 x 800 x 1200 (40 to 80kVA)							
Galvanic Isolation	Inbuilt isolation transformer at inverter output							
Protection	Under/Over voltage for Input, Output, Battery Output overload, short circuit, Over temperature, MCCB & Surge protection at Input, Output, & Battery path, Wound Component OT							
Display Parameter	1. Battery - Voltage, current 2. Mains - Voltage, Current, Frequency 3. Inverter - Voltage, Current, Frequency Inverter Heat Sink Temperature, Power(kVA/kW)							
Indications	Battery on Float, Battery on Boost, Battery low, Battery Charging/Discharging, Mains Switch ON, Inverter Switch ON, Load ON, Inverter ON							
<b>Environment</b>								
Location	Indoor (Free from corrosive gases & conductive dust)							
Temperature Operating (°C)	0-40							
Max. Relative humidity @25°C (non condensing) (%)	Up to 95							
Max. Altitude above sea level without derating	1000m (For higher altitude complies with IEC/EN 62040-3)							
<b>Standard Compliance</b>								
Testing Standard	Complies to IEC62040-3							
<b>Communication</b>								
	Ethernet based - RJ45							
<b>Optional</b>								
	Battery Voltage 240V							

► All specifications are subject to change ► Custom models available on request

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