

Pelican **3000**



Bi-directional Inverter

100 to 600 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)	100 KVA	120kVA	160kVA	200kVA	300kVA	400kVA	500kVA	600kVA
Mains Input :-								
Input Supply Phases	3Phase 4 Wire							
Nominal Voltage & Voltage Range	415VAC (+15%, -15%), 50Hz							
Battery								
Battery Voltage			600V					
Max. Battery Charging Current	50A	60A	80A	100A	125A	150A	175A	200A
Inverter								
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	Up to 94%							
Voltage with resistive load of 100% (Ref. STD IEC 61683)	3:1							
Crest Factor	< 60dBA							
Noise @ 1 meter (dBA ± 2dBA)	IP20							
Protection degree with open doors	Forced Air							
Cooling	RAL 7016							
Colour								
Dimension (WxDxH)	840 x 900 x 1750mm (100-120kVA)							
	1390 x 900 x 1750mm(160-200kVA)							
	1650 x 900 x 1750mm (300kVA)							
	2100 x 900 x 1750mm (400kVA)							
	2490 x 1000 x 1950mm (for 500-600kVA)							
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							
Environment								
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	1000 m (For higher altitude complies with IEC/EN 62040-3)							
Standard Compliance								
Testing Standard	Complies to IEC62040-3							
Communication	Ethernet based - RJ45							

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

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