(15KVA-75KVA)



UPS

INVERTERS





with high starting current



Stable output voltage & frequency



Phase sequence & phase failure protection

BENEFITS

- ✓ Pure Sine Wave Output Suitable for Electrical and Electronics gadgets
- ☑ 100% Copper Transformer design for long life and it delivers high charging current for quick charging of battery
- ✓ LCD display for better user interface
- ✓ Multi Stage Charging technique for superior performance of battery
- ☑ Wide Operating Voltage range, charges battery even at low voltage, increases battery life
- ☑ Enhanced Output Voltage for better performance of loads

APPLICATION





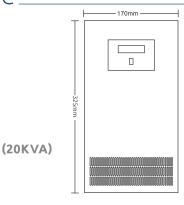


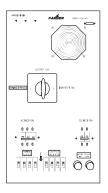




Oil and gas fields

SCHEMATIC





FEATURES



Pure sine wave output



Technology increases battery lifetime



Technology protects against low battery



Technology protects against short circuit



Technology protects loose connection





Mains Input Voltage Range 277 VAC ~ 502 VAC Mains Input Frequency Range 180 VAC to 265 VAC Nominal Voltage 230V (F-N), 400V (P-P) Frequency 50HZ (±0.5Hz) Crest Factor >3.1 Waveform Pure sine wave Total Harmonic Distortion (THDV) <3% (Linear Load), <5% (Non-linear Load)							
Nominal Voltage	MODEL NUMBER						
Naminal Voltage	Capacity	15KVA	20KVA	30KVA	40KVA	75KVA	
Mains Input Voltage Range 277VAC - 502VAC Mains Input Frequency Range 180 VAC to 265 VAC Nominal Voltage 230V (P-N), 400V (P-P)			INPUT				
Mains Input Frequency Range 180 VAC to 265 VAC	Nominal Voltage	3 x 380VAC (3Ph + G or 3Ph + N + G)					
OUTPUT Nominal Voltage 230V (P-N), 400V (P-P) Frequency 50HZ (£0.5Hz) Crest Factor 3-31 Waveform Pure sine wave Total Harmonic Distortion (THDV) <3% (Linear Load), <5% (Non-linear Load) Connection Type Hardwire 4-wire (3 Ph+N) Empty 145 (Linear Load) Connection Type BATTERY Charge current BOSA (Linear Load) Span="4">BOSA (Linear Load) Charge wortage Float charge voltage 14.5V Float charge voltage 14.5V Close that current, Float charge voltage 30.42VDC Recommended battery outsoff point 10.4V Number of batteries 20.412VDC 30.42VDC Recommended battery outsoff point Constant current, followed by constant voltage Output frequency (UPS mode) 50 HZ Efficiency 80% DU Operation temperature 0 to 45°C Colspan="4">CLCD indicators <th cols<="" td=""><td>Mains Input Voltage Range</td><td></td><td></td><td>277VAC ~ 502VAC</td><td></td><td></td></th>	<td>Mains Input Voltage Range</td> <td></td> <td></td> <td>277VAC ~ 502VAC</td> <td></td> <td></td>	Mains Input Voltage Range			277VAC ~ 502VAC		
Nominal Voltage 230V (P-N), 400V (P-P) Frequency 50HZ (±0.5 Hz) Crest Factor 3-3.1 Waveform Pure sine wave Total Harmonic Distortion (THDV) 43% (Linear Load), <5% (Non-linear Load) Connection Type BATTERY Charge current 15A 25A BOOSt charge voltage 15A 25A Boost charge voltage 15A + 5V Float charge voltage 15A + 5V 10 4 4 5V 10 4 4 5V Number of batteries 20 *12 VDC 30 *12 VDC Recommended battery 65 AH to 200 AH Charge method Constant current, followed by constant voltage Charge method Constant current, followed by constant voltage Charge method Control totage amended battery, overload Charge method Constant current, followed by constant voltage Charge method Charge method Charge method Charge method	Mains Input Frequency Range	180 VAC to 265 VAC					
Frequency 50HZ (±0.5Hz) Crest Factor 33.1 Waveform Pure sine wave Total Harmonic Distortion (THDv) <3% (Linear Load), <5% (Non-linear Load)	ОИТРИТ						
Crest Factor 33:1 Waveform Pure sine wave Total Harmonic Distortion (THDv) <3% (Linear Load), <5% (Non-linear Load) Connection Type BATTERY Charge current 15A 25A Boost charge voltage 14.5V Float charge voltage 13.8V Charge current of batteries 20 *12VDC 30 *12VDC Recommended battery 65 AH to 200 AH Charge method Constant current, followed by constant voltage Output frequency (UPS mode) 50 HZ Efficiency 280% Operation temperature 0 to 45°C CLD indicators Mains, charging, UPS, low battery, overload Audible alarm Low battery, overload, short circuit PROTECTIONS Overload 105% load on UPS (auto reset within 5 re-tries) Overload Overload 105% load on UPS (auto reset within 5 re-tries) Overload, short circuit PROTECTIONS Overcharge Control battery overlage and current through software Short circui	Nominal Voltage		230V (P-N), 400V (P-P)				
Waveform Pure sine wave Total Harmonic Distortion (THDV) < 3% (Linear Load), <\$% (Non-linear Load). Connection Type BATTERY Charge current BATTERY Charge current BATTERY Charge current 15.5 25.A Boost charge voltage 14.5 V Charge voltage 13.8 V Charge voltage 10.4 V Low battery cutoff point 10.4 V V Number of batteries 20 *12 VDC 30 *12 VDC Recommended battery 65 AH to 200 AH Charge method Constant current, followed by constant voltage Charge method Constant current, followed by constant voltage Charge method Constant current, followed by constant voltage Charge method Constant current, followed by constant voltage Charge method Charge method <td>Frequency</td> <td colspan="5">50HZ (±0.5Hz)</td>	Frequency	50HZ (±0.5Hz)					
Total Harmonic Distortion (THDV) 43% (Linear Load), <5% (Non-linear Load) Connection Type BATTERY Charge current 15A 25A Boost charge voltage 14.5V 25A Boost charge voltage 14.5V 25A Boost charge voltage 14.5V 25A Boost charge voltage 15.8V 25A Low battery cutoff point 10.4V Number of batteries 20 *12VDC 30 *12VDC Recommended battery 65 AH to 200 AH Charge of Battery	Crest Factor	>3:1					
Connection Type BATTERY Charge current 15A 25A Boost charge voltage 14.5V Float charge voltage 13.8V Low battery cutoff point 10.4V Number of batteries 20*12VDC 65 AH to 200 AH Charge method Constant current, followed by constant voltage Output frequency (UPS mode) Efficiency 3880% Operation temperature CLD indicators Mains, charging, UPS, low battery, overload Audible alarm Low battery, overload, short circuit PROTECTIONS Overcharge Control battery overload, short circuit MCB Tripe in Main mode and UPS gets shut down in Back-up mode Thermal UPS get shut down when temperature reaches to 95 C at inside UPS Battery reverse polarity Battery reverse polarity Battery reverse polarity Battery deep discharge VEVENUEL TO LES Will shut down when battery voltage reches to 10.4V (per battery) Battery deep discharge Battery 10 kg kg 10 kg 12.8 kg 16.5 kg	Waveform	Pure sine wave					
Charge current 15A 25A Boost charge voltage 14.5V Float charge voltage 13.8V Low battery cutoff point 10.4V Number of batteries 20 * 12.VDC 30 * 12.VDC Recommended battery 65 AH to 200 AH Charge method Constant current, followed by constant voltage Output frequency (UPS mode) 50 HZ Efficiency 880% Output frequency (UPS mode) 50 HZ Efficiency 800% Operation temperature 0 to 45°C LCD indicators Mains, charging, UPS, low battery, overload Audible alarm Low battery, overload, short circuit PROTECTIONS Overload 105% load on UPS (auto reset within 5 re-tries) Overcharge Control battery voltage and current through software Short circuit MCB Tripe in Main mode and UPS gets shut down in Back-up mode Thermal UPS get shut down when temperature reaches to 95 C at inside UPS Battery reverse polarity DC fuse on PMB will fall when battery terminals connected wrongly Battery deep discharge UPS will shut down when battery voltage reches to 10.4V (per battery) PACKING INFORMATION Netweight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg	Total Harmonic Distortion (THDv)	<3% (Linear Load), <5% (Non-linear Load)					
Charge current 15A 15A 15A 15A 15A 15A 15A 15	Connection Type	Hardwire 4-wire (3 Ph+N)					
Boost charge voltage 14.5V Float charge voltage 13.8V Low battery cutoff point 10.4V Number of batteries 20 *12VDC 30 *12VDC Recommended battery 65 AH to 200 AH Charge method Constant current ,followed by constant voltage Output frequency (UPS mode) 50 HZ Efficiency 280% Operation temperature 0 to 45°C LCD indicators Mains, charging, UPS, low battery, overload Audible alarm Low battery, overload, short circuit PROTECTIONS Overload 105% load on UPS (auto reset within 5 re-tries) Overcharge Control battery voltage and current through software Short circuit MCB Tripe in Main mode and UPS gets shut down in Back-up mode Thermal UPS get shut down when temperature reaches to 95 C at inside UPS Battery reverse polarity DC fuse on PMB will fail when battery terminals connected wrongly Battery deep discharge UPS will shut down when battery voltage reches to 10.4V (per battery) PACKING INFORMATION Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg			BATTERY				
Float charge voltage 13.8V Low battery cutoff point 10.4V Number of batteries 20 *12VDC 30 *12VDC Recommended battery 65 AH to 200 AH Charge method Constant current, followed by constant voltage Output frequency (UPS mode) 50 HZ Efficiency \$80% Operation temperature 0 to 45°C LCD indicators Mains, charging, UPS, low battery, overload Audible alarm Low battery, overload, short circuit PROTECTIONS Overload 105% load on UPS (auto reset within 5 re-tries) Overcharge Control battery voltage and current through software Short circuit MCB Tripe in Main mode and UPS gets shut down in Back-up mode Thermal UPS get shut down when temperature reaches to 95 C at inside UPS Battery reverse polarity DC fuse on PMB will fail when battery verminals connected wrongly Battery deep discharge UPS will shut down when battery voltage reches to 10.4V (per battery) PACKING INFORMATION Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg	Charge current		1	5A		25A	
Low battery cutoff point 10.4V Number of batteries 20 *12VDC 30 *12VDC Recommended battery 65 AH to 200 AH Charge method Constant current, followed by constant voltage Output frequency (UPS mode) 50 HZ Efficiency \$80% Operation temperature 0 to 45°C LCD indicators Mains, charging, UPS, low battery, overload Audible alarm Low battery, overload, short circuit PROTECTIONS Overload 105% load on UPS (auto reset within 5 re-tries) Overcharge Control battery voltage and current through software Short circuit MCB Tripe in Main mode and UPS gets shut down in Back-up mode Thermal UPS get shut down when temperature reaches to 95 C at inside UPS Battery reverse polarity DC fuse on PMB will fail when battery terminals connected wrongly Battery deep discharge UPS will shut down when battery voltage reches to 10.4V (per battery) PACKING INFORMATION Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg	Boost charge voltage	14.5V					
Number of batteries 20 *12VDC 30 *12VDC Recommended battery 65 AH to 200 AH Charge method Constant current, followed by constant voltage Output frequency (UPS mode) 50 HZ Efficiency 580% Operation temperature 0 to 45°C LCD indicators Mains, charging, UPS, low battery, overload Audible alarm Low battery, overload, short circuit PROTECTIONS Overcharge Control battery voltage and current through software Short circuit MCB Tripe in Main mode and UPS gets shut down in Back-up mode Thermal UPS get shut down when temperature reaches to 95 C at inside UPS Battery reverse polarity DC fuse on PMB will fail when battery terminals connected wrongly Battery deep discharge UPS will shut down when battery voltage reches to 10.4V (per battery) PACKING INFORMATION Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg	Float charge voltage	13.8V					
Recommended battery Charge method Constant current, followed by constant voltage Output frequency (UPS mode) 50 HZ Efficiency Se80% Operation temperature Oto 45°C LCD indicators Mains, charging, UPS, low battery, overload Audible alarm Low battery, overload, short circuit PROTECTIONS Overcload 105% load on UPS (auto reset within 5 re-tries) Overcharge Control battery voltage and current through software Short circuit MCB Tripe in Main mode and UPS gets shut down in Back-up mode Thermal UPS get shut down when temperature reaches to 95 C at inside UPS Battery reverse polarity DC fuse on PMB will fail when battery terminals connected wrongly Battery deep discharge UPS will shut down when battery voltage reches to 10.4V (per battery) PACKING INFORMATION Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg	Low battery cutoff point	10.4V					
Charge method Constant current , followed by constant voltage Output frequency (UPS mode) 50 HZ Efficiency ≥80% Operation temperature 0 to 45°C LCD indicators Mains, charging, UPS, low battery, overload Audible alarm Low battery, overload, short circuit PROTECTIONS Overload 105% load on UPS (auto reset within 5 re-tries) Overcharge Control battery voltage and current through software Short circuit MCB Tripe in Main mode and UPS gets shut down in Back-up mode Thermal UPS get shut down when temperature reaches to 95 C at inside UPS Battery reverse polarity DC fuse on PMB will fail when battery terminals connected wrongly Battery deep discharge UPS will shut down when battery voltage reches to 10.4V (per battery) PACKING INFORMATION Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg	Number of batteries	20 *12VDC 30 *12VDC					
Output frequency (UPS mode) Efficiency Operation temperature Oto 45°C LCD indicators Mains, charging, UPS, low battery, overload Audible alarm Low battery, overload, short circuit PROTECTIONS Overload 105% load on UPS (auto reset within 5 re-tries) Overcharge Control battery voltage and current through software Short circuit MCB Tripe in Main mode and UPS gets shut down in Back-up mode Thermal UPS get shut down when temperature reaches to 95 C at inside UPS Battery reverse polarity DC fuse on PMB will fail when battery terminals connected wrongly Battery deep discharge UPS will shut down when battery voltage reches to 10.4V (per battery) PACKING INFORMATION Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg	Recommended battery	65 AH to 200 AH					
Efficiency Operation temperature O to 45°C LCD indicators Mains,charging,UPS,low battery, overload Audible alarm Low battery, overload, short circuit PROTECTIONS Overload 105% load on UPS (auto reset within 5 re-tries) Overcharge Control battery voltage and current through software Short circuit MCB Tripe in Main mode and UPS gets shut down in Back-up mode Thermal UPS get shut down when temperature reaches to 95 C at inside UPS Battery reverse polarity DC fuse on PMB will fail when battery terminals connected wrongly Battery deep discharge UPS will shut down when battery voltage reches to 10.4V (per battery) PACKING INFORMATION Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg	Charge method	Constant current , followed by constant voltage					
Operation temperature 0 to 45°C LCD indicators Mains, charging, UPS, low battery, overload Audible alarm Low battery, overload, short circuit PROTECTIONS Overload 105% load on UPS (auto reset within 5 re-tries) Overcharge Control battery voltage and current through software Short circuit MCB Tripe in Main mode and UPS gets shut down in Back-up mode Thermal UPS get shut down when temperature reaches to 95 C at inside UPS Battery reverse polarity DC fuse on PMB will fail when battery terminals connected wrongly Battery deep discharge UPS will shut down when battery voltage reches to 10.4V (per battery) PACKING INFORMATION Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg	Output frequency (UPS mode)	50 HZ					
Mains, charging, UPS, low battery, overload Audible alarm Low battery, overload, short circuit PROTECTIONS Overload 105% load on UPS (auto reset within 5 re-tries) Overcharge Control battery voltage and current through software Short circuit MCB Tripe in Main mode and UPS gets shut down in Back-up mode Thermal UPS get shut down when temperature reaches to 95 C at inside UPS Battery reverse polarity DC fuse on PMB will fail when battery terminals connected wrongly Battery deep discharge UPS will shut down when battery voltage reches to 10.4V (per battery) PACKING INFORMATION Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg	Efficiency	≥80%					
Audible alarm Cow battery, overload, short circuit PROTECTIONS Overload 105% load on UPS (auto reset within 5 re-tries) Overcharge Control battery voltage and current through software Short circuit MCB Tripe in Main mode and UPS gets shut down in Back-up mode Thermal UPS get shut down when temperature reaches to 95 C at inside UPS Battery reverse polarity DC fuse on PMB will fail when battery terminals connected wrongly Battery deep discharge UPS will shut down when battery voltage reches to 10.4V (per battery) PACKING INFORMATION Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg	Operation temperature	0 to 45°C					
Overload 105% load on UPS (auto reset within 5 re-tries) Overcharge Control battery voltage and current through software Short circuit MCB Tripe in Main mode and UPS gets shut down in Back-up mode Thermal UPS get shut down when temperature reaches to 95 C at inside UPS Battery reverse polarity DC fuse on PMB will fail when battery terminals connected wrongly Battery deep discharge UPS will shut down when battery voltage reches to 10.4V (per battery) PACKING INFORMATION Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg	LCD indicators	Mains, charging, UPS, low battery, overload					
Overload 105% load on UPS (auto reset within 5 re-tries) Overcharge Control battery voltage and current through software Short circuit MCB Tripe in Main mode and UPS gets shut down in Back-up mode Thermal UPS get shut down when temperature reaches to 95 C at inside UPS Battery reverse polarity DC fuse on PMB will fail when battery terminals connected wrongly Battery deep discharge UPS will shut down when battery voltage reches to 10.4V (per battery) PACKING INFORMATION Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg	Audible alarm	Low battery, overload, short circuit					
Overcharge Control battery voltage and current through software Short circuit MCB Tripe in Main mode and UPS gets shut down in Back-up mode Thermal UPS get shut down when temperature reaches to 95 C at inside UPS Battery reverse polarity DC fuse on PMB will fail when battery terminals connected wrongly Battery deep discharge UPS will shut down when battery voltage reches to 10.4V (per battery) PACKING INFORMATION Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg			PROTECTIONS				
Short circuit MCB Tripe in Main mode and UPS gets shut down in Back-up mode Thermal UPS get shut down when temperature reaches to 95 C at inside UPS Battery reverse polarity DC fuse on PMB will fail when battery terminals connected wrongly Battery deep discharge UPS will shut down when battery voltage reches to 10.4V (per battery) PACKING INFORMATION Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg	Overload	105% load on UPS (auto reset within 5 re-tries)					
Thermal UPS get shut down when temperature reaches to 95 C at inside UPS Battery reverse polarity DC fuse on PMB will fail when battery terminals connected wrongly Battery deep discharge UPS will shut down when battery voltage reches to 10.4V (per battery) PACKING INFORMATION Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg	Overcharge	Control battery voltage and current through software					
Battery reverse polarity DC fuse on PMB will fail when battery terminals connected wrongly Buttery deep discharge UPS will shut down when battery voltage reches to 10.4V (per battery) PACKING INFORMATION Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg	Short circuit	MCB Tripe in Main mode and UPS gets shut down in Back-up mode					
Battery deep discharge UPS will shut down when battery voltage reches to 10.4V (per battery) PACKING INFORMATION Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg	Thermal		UPS get shut down when temperature reaches to 95 C at inside UPS				
PACKING INFORMATION Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg	Battery reverse polarity		DC fuse on PMB will fail when battery terminals connected wrongly				
Net weight 8.4kg 9 kg 10 kg 12.8 kg 16.5 kg	Battery deep discharge	UPS will shut down when battery voltage reches to 10.4V (per battery)					
		P.	ACKING INFORMATION	ON			
Dimensions (cm) 32.5 x 32.5 x 17.0 32.5 x 32.5 x 17.0 32.5 x 32.5 x 17.0 38.0 x 35.8 x 10.0 38.0 x 35.5 x 18.0	Net weight	8.4kg	9 kg	10 kg	12.8 kg	16.5 kg	
	Dimensions (cm)	32.5 x 32.5 x 17.0	32.5 x 32.5 x 17.0	32.5 x 32.5 x 17.0	38.0 x 35.8 x 10.0	38.0 x 35.5 x 18.0	











Technology for instant changeover between power and battery and vice-versa Quick charge / normal charge options

Technology protects against overload

Technology protects against reverse polarity