

iMAXX SERIES

INTELLIGENT PERFORMANCE LOW FREQUENCY ONLINE UPS

5.5KVA / 7.5KVA / 10KVA

16 / 18 BATTERY SYSTEM

iMaxx series is based on DSP technology with IGBT based inverter. It consists of built in maintenance bypass and static bypass switch along with the alarm for mute mode and SNMP card as optional addition. It is generator compatible and the required generator capacity required for the stand by source should be 2.5 times of the UPS capacity.

Online UPS Models
With inbuilt Isolation Transformers



5.5KVA



7.5/10 KVA

FEATURES:

- Inbuilt over voltage cut off device with surge protection
- Smart display for real time information
- Constant voltage constant frequency operation without battery
- Conformal coated PCV assemblies to withstand harsh environment
- External charger capacity expansion to 4 amps(Optional)
- EMI/RFI Noise Filter
- Waveform (Battery Mode): Pure Sine wave

BENEFITS:

- Hot standby, Cold start and RS-232/USB port available
- Generator Compatible
- Display information (Load level, Battery level, AC mode, Battery mode, Bypass mode and Faults)
- Transfer time: Zero (AC to DC mode/ Inverter to Bypass mode)

TECHNICAL SPECIFICATIONS

MODEL	i-MAXX TRANSFORMER BASED ONLINE UPS		
CAPACITY	5.5KVA 4.4KW	7.5KVA 6.0KW	10.0KVA 8.0KW
DC VOLTAGE SYSTEM	DEFAULT : 192VDC, ADJUSTABLE : 216VDC		
PHASE	SINGLE PHASE WITH GROUND		
INPUT			
NOMINAL VOLTAGE	208V AC / 220V AC / 230VAC		
ACCEPTABLE VOLTAGE RANGE	165~285V AC		
FREQUENCY RANGE	40Hz ~ 55Hz @50 Hz System		
OUTPUT			
NOMINAL VOLTAGE	208V AC / 220V AC / 230VAC		
AC VOLTAGE REGULATION	±1% (Battery Mode)		
FREQUENCY RANGE	Mains Mode(Synchronized Range) : 45Hz ~ 55Hz / Battery Mode: 50Hz 0.1Hz		
TRANSFER TIME			
AC TO DC MODE	Zero		
INVERTER TO BYPASS MODE	Zero		
BYPASS TO INVERTER MODE	<5ms		
WAVEFORM			
BATTERY MODE	Pure Sinewave		
EFFICIENCY			
AC MODE / BATTERY MODE	87% / 91%		
EXTERNAL BATTERY			
RECOMMENDED BATTERY TYPE	DEFAULT : VRLA / SMF Battery Tublar Battery: OK(With Charger Cut-Off Voltage adjustable from LCD Display)		
BATTERY CHARGING AMP.	2/4 / 8 AMP. (Default : 8 AMP)		
NO. OF BATTERIES	16 / 18 Batteries		
INDICATORS			
LCD DISPLAY	LOAD LEVEL, BATTERY LEVEL, AC MODE, BATTERY MODE, BYPASS MODE AND FAULT INDICATORS		
ALARMS	Battery Mode: Sounding every 4 Seconds Overload: Sounding twice every second	Low Battery: Sounding every second Fault: Continuously Sounding	
MANAGEMENT			
RS-232 / USB & OPTIONAL SNMP	Supports Windows® 2000/2003/XP/Vista/2008/7/8, Linux and MAC		
PHYSICAL			
NET WEIGHT(Kgs.)	62.0 Kgs.	78.0 Kgs.	86.0 Kgs.
DIMENSIONS(LXWXH) mm	562 x 250 x 830		

*Product specifications are subject to change without prior notice.

iMAXX SERIES

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10KVA / 15KVA / 20KVA

3 PHASE IN ~ 1 PHASE OUT

iMaxx series is based on DSP technology with IGBT based inverter. It consists of built in maintenance bypass and static bypass switch along with the alarm for mute mode and SNMP card as optional addition. It is generator compatible and the required generator capacity required for the stand by source should be 2.5 times of the UPS capacity.

Online UPS Models
With inbuilt Isolation Transformers



FEATURES:

- Inbuilt over voltage cut off device with surge protection
- Smart display for real time information
- Constant voltage constant frequency operation without battery
- Conformal coated PCB assemblies to withstand harsh environment
- External charger capacity expansion to 4 amps (Optional in 192V Models)
- Built in maintenance bypass and static bypass switches
- Configurable Output voltage settings
- Waveform (Battery Mode): Pure Sine wave
- Immune to reverse phase sequence and neutral operation

BENEFITS:

- Hot standby, Cold start features available
- Inbuilt charger of 20 Amps., Parallel Redundancy & Battery Reverse Protection in all 360V Models
- Alarm for mute mode and SNMP card (Optional)
- RS-232, USB Port and RS-485 Port available in 360V models

TECHNICAL SPECIFICATIONS

MODEL	i-MAXX TRANSFORMER BASED ONLINE UPS		
CAPACITY	10KVA / 8KW	15KVA / 12KW	20KVA / 16KW
DC VOLTAGE SYSTEM	192VDC	DEFAULT: 360VDC, ADJUSTABLE: 348~384VDC	
PHASE	3 PHASE IN ~ 1 PHASE OUT		
INPUT			
NOMINAL VOLTAGE	3 X 360V/380VAC 400VAC (3Ph+N+G)	3 X 380VAC/400VAC/415VAC (3P h+N+G)	
ACCEPTABLE VOLTAGE RANGE	286VAC ~ 493VAC	165VAC ~ 280VAC (Ph-N) / 285VAC ~ 485VAC (P h-Ph)	
FREQUENCY RANGE	40Hz~55Hz	50Hz/60Hz±10%	
OUTPUT			
NOMINAL VOLTAGE	DEFAULT = 230VAC ± 1%, 208VAC / 220VAC / 230VAC (A djustable)		
WAVE FORM	PURE SINEWAVE		
FREQ. RANGE SYNCHRONIZED MAINS MODE	45Hz~55Hz	50Hz ± 1%	
FREQ. RANGE BATTERY MODE	50Hz ± 0.1Hz	50Hz ± 0.1Hz	
POWER FACTOR / CREST FACTOR	0.8 / 3:1		
TOTAL HARMONIC DISTORTION	≤3% (Linear Load); ≤5% (Non-Linear Load)	≤2% (Linear Load); ≤5% (Non-Linear Load)	
TRANSFER TIME (AC TO DC)	0ms		
TRANSFER TIME (INVERTER TO BYPASS)	0ms		
OVERLOAD CAPABILITY	110% FOR 30 MIN, 125% FOR 5 MIN & 150% FOR 1 S ec	110% FOR 10 MIN; 150% FOR 60 S ec; >160% FOR 200 ms	
STATIC BYPASS			
OVERLOAD / SHORT-CIRCUIT CAPABILITY	150% FOR 1 HOUR; 180% FOR 30 S ec; >200% FOR 200 ms		
CONNECTION TYPE / INPUT VOLTAGE RANGE	HARDWIRE 3-WIRE (1Ph+N+G) / 220VAC		
EFFICIENCY			
OVERALL EFFICIENCY (AC MODE)	83%	≥88%	≥88%
EFFICIENCY (BATTERY MODE)	92%	90%	90%
BATTERY & CHARGER			
BATTERY TYPE	LEAD ACID/TUBULAR/SMF		
BATTERY NUMBERS	16Nos.	DEFAULT: 30Nos. (Adjustable 29, 30, 31 & 32 N umbers)	
CHARGING CURRENT	DEFAULT 8A, 2A/4A/8A (ADJUSTABLE)	DEFAULT: 5A, MAXIMUM = CAPACITY(KW) x (1-% LOAD) / BATTERY VOLTAGE	
PHYSICAL			
DIMENSION LXWXH(MM)/NET WEIGHT(Kgs.)	562X300X830/115KGS.	656X405X817/120KGS.	656X405X817/145KGS.
ENVIRONMENT			
OPERATING TEMP./HUMIDITY/NOISE LEVEL	TEMP.: 0~55°C / HUMIDITY: 0~90% (N on-Condensing) / LESS THAN 60 dBA@1 METER		
MANAGEMENT			
USB AND MODBUS RS-232/RS485	SUPPORTS WINDOWS® 2000/2003/XP/VISTA/2008/7/8/10, LINUX AND MAC		
DRY CONTACTS / SNMP (OPTIONAL)	10KVA MODEL: 5 SIGNALS: AC FAILURE, LOW BATTERY, UPS ALARM, BYPASS AND UPS FAULT/ POWER MANAGEMENT FROM SNMP MANAGER AND WEB BROWSER (O ptional) 15/20KVA MODELS: 6 OUTPUTS AND 2 INPUTS/POWER MANAGEMENT FROM SNMP MANAGER AND WEB BROWSER (O ptional)		

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iMAXX SERIES ONLINE UPS

INTELLIGENT PERFORMANCE LOW FREQUENCY ONLINE UPS

10KVA / 20KVA / 30KVA

3 PHASE IN ~ 3 PHASE OUT

iMaxx series is based on DSP technology with IGBT based inverter. It consists of built in maintenance bypass and static bypass switch along with the alarm for mute mode and SNMP card as optional addition. It is generator compatible and the required generator capacity required for the stand by source should be 2.5 times of the UPS capacity.

FEATURES:

- DSP Technology with IGBT based inverter.
- Smart LCD Display for Real-time information.
- CVCF (Constant Voltage Constant Frequency) Operational without Battery.
- Adjustable Battery Numbers (29,30,31 & 32 Numbers) in all 360V Models.
- Immune to Reverse Phase Sequence & no Neutral Operation.
- Built-In Maintenance Bypass & Static Bypass Switches.
- Configurable Output Voltage Settings.
- Input filter for Power Factor 0.9(Optional) available.
- Conformal Coated PCB Assemblies to withstand harsh environment.
- Over Temperature Indication & Protection.
- Output Frequency fixed at 50Hz or can be synchronized with Input frequency.
- Generator Compatible. Generator Capacity required for Stand-By Source be 2.5 times of the UPS capacity.

Online UPS Models
With inbuilt Isolation Transformers



BENEFITS:

- Hot standby, Cold start features available
- Inbuilt charger of 20 Amps., Parallel Redundancy & Battery Reverse Protection in all 360V Models.
- Alarm for mute mode and SNMP card (Optional)
- RS-232, USB Port and RS-485 Port available. in 360V models

TECHNICAL SPECIFICATIONS

MODEL	i-MAXX TRANSFORMER BASED ONLINE UPS		
CAPACITY	10KVA / 8KW	20KVA / 16KW	30KVA / 24KW
DC VOLTAGE SYSTEM	DEFAULT: 360VDC, ADJUSTABLE: 348~384VDC		
PHASE	3 PHASE IN ~ 3 PHASE OUT		
INPUT			
NOMINAL VOLTAGE	3 X 380VAC/400VAC(3Ph+N)		
ACCEPTABLE VOLTAGE RANGE	285VAC ~ 485VAC(Ph-Ph)		
FREQUENCY RANGE	50Hz/60Hz ±10%		
OUTPUT			
NOMINAL VOLTAGE	3 X 380VAC/400VAC ±1%(3P h+N), 415VAC(ADJUSTABLE)		
WAVE FORM	PURE SINEWAVE		
FREQ. RANGE SYNCHRONIZED MAINS MODE	50Hz ± 1%		
FREQ. RANGE BATTERY MODE	50Hz ± 0.1HZ		
POWER FACTOR / CREST FACTOR	0.8 / 3:1		
TOTAL HARMONIC DISTORTION	≤2% (Linear Load); ≤5% (Non-Linear Load)		
TRANSFER TIME (AC TO DC)	0ms		
TRANSFER TIME (INVERTER TO BYPASS)	0ms		
OVERLOAD CAPABILITY	110% FOR 10MIN; 150% FOR 60SEC; >160% FOR 200 ms		
STATIC BYPASS			
OVERLOAD / SHORT-CIRCUIT CAPABILITY	150% FOR 1HOUR ; 180% FOR 30SEC ; >200% FOR 200 ms		
CONNECTION TYPE / INPUT VOLTAGE RANGE	SOLID STATE / 3X380VAC/400AC(3P h+N)		
EFFICIENCY			
OVERALL EFFICIENCY (AC MODE)	90%	91%	91%
EFFICIENCY (BATTERY MODE)	89%	91%	93%
BATTERY & CHARGER			
BATTERY TYPE	LEAD ACID/TUBULAR/SMF / DEFAULT: 30N os.(Adjustable 29, 30, 31 & 32 N umbers)		
CHARGING CURRENT	DEFAULT: 5A, MAXIMUM = CAPACITY(KW) X (1-% Load) / BATTERY VOLTAGE		DEFAULT: 5A, MAX. = 20A
PHYSICAL			
DIMENSION LXWXH(MM) / NET WEIGHT(Kgs.)	656X405X817 / 118Kgs.	656X405X941/179Kgs.	821X432X1159 / 241Kgs.
ENVIRONMENT			
OPERATING TEMP./HUMIDITY/NOISE LEVEL	TEMP.: 0~55°C / HUMIDITY: 0~90% (N on-Condensing) / LESS THAN 60 dBA@1 METER		
MANAGEMENT			
USB AND MODBUS RS-232/RS485	SUPPORTS WINDOWS® 2000/2003/XP/VISTA/2008/7/8/10, LINUX AND MAC		
DRY CONTACTS / SNMP (OPTIONAL)	6 OUTPUTS AND 2 INPUTS / POWER MANAGEMENT FROM SNMP MANAGER AND WEB BROWSER (Optional)		

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