iMax Series
6kVA - 10kVA

True On-Line Double Conversion

TIS.1291-2553

Features

- Online-Double conversion
- Output transfer time is 0ms
- PFC technology
- Full digital control (DSP)
- Output power factor: 0.9
- Input current harmonic: <5%
- ECO function
- Charging/Rectifier/Inverter fully digital control technology
- Optimization battery group, the quantity of battery: 16/18/20 pieces (optional)
- Wide input voltage range: 208~520Vac or 120~300Vac
- Wide input frequency range: 40~70Hz
- Self-testing when UPS startup
- Input over/under-voltage protection
- Automatic bypass
- DC start
- Fault isolation
- Comunication port: USB , dry contact, RS485*2
- Options: SNMP card/Relay card

The LCD panel can be rotated

Control Panel

Battery Cabinets
(Optional)

Technical Specifications:

MODEL		iMax-6RT	iMax-10RT
Capacity (VA/Watts)		6k / 5.4k	10k / 9k
INPUT			
Nominal voltage		380/400/415Vac(3Ph+N+PE) or 220/230/240Vac(L+N+PE)	
Operating voltage range		208~520Vac or 120Vac~300Vac	
Operating frequency range		40~70Hz	
Power factor		≥0.99	
Bypass voltage range		Max. voltage: 220V: +25%(optional +10%,+15%,+20%) 230V: +20% (optional +10%,+15%) 240V: +15% (optional +10%) Min. voltage: -45% (optional -20%,-30%)	
Bypass frequency range		Frequency protection range: ± 10%	
ECO range		Same as bypass	
Harmonic distortion (THDi)		≤3%(100% non-linear load)	
Generator input		Support	
OUTPUT			
Output voltage		220/230/240Vac	
Power factor		0.9	
Voltage regulation		± 1%	
Frequency	Line Mode	± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% of the rated frequency(optional)	
	Bat. Mode	50/60Hz(± 0.1%)	
Crest factor		3:1	
Harmonic distortion (THD)		≤2% with linear load ≤5% with non-linear load	
Efficiency		93.5%	
BATTERY			
Battery voltage		± 96/108/120Vdc (optional)	
Backup time		Long run unit depends on the capacity of external batteries Estimated remaining time displayed on the LCD	
Typical recharge time		6~8 hours (to 90% of full capacity)	
Charge current		Maximum Current 6A; charge current can be set according to battery capacity installed.	
SYSTEM FEATURES			
Transfer time		Mains to Battery:0ms; Mains to Bypass:0ms	
Overload	Line Mode	Load≤110%:60min; ≤125%:last 10min; ≤150%:last 1min;>150% turn to bypass mode	
	Bypass Mode	40A(Input breaker)	60A(Input breaker)
Short Circuit		Hold Whole System	
Overheat		Line Mode: Turn to Bypass; Backup Mode: Shut down UPS immediately	
Low battery voltage		Alarm and Switch off	
Self-diagnostics		Upon Power On and Software Control	
Battery		Advanced Battery Management	
Audible & Visual alarms		Line Failure, Battery Low, Overload, System Fault	
Status LED & LCD display		Line Mode, Bat. Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault	
Reading on the LCD display		Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Inner Temperature & Remaining Battery Backup Time	
Comunication interface		USB,SNMP card(optional), Parallel port(optional), Relay card (optional)	
ENVIRONMENTAL			
Operating temperature		0℃ ~ 40℃	
Storage temperature		-25℃ ~ 55℃	
Humidity range		0 ~ 95% (non-condensing)	
Altitude		< 1500m	
Noise level		<55dB	
PHYSICAL			
Dimension D × W × H (mm)		580 × 443 × 131(3U)	
Net weight (kg)		23	25
STANDARDS			
Safety		IEC/EN62040-1,IEC/EN60950-1	
EMC		IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4, IEC61000-4-5,IEC61000-4-6,IEC61000-4-8	
BATTERY BANK			
Model		MEMO -BR Series	
Battery type& Max.quantity		7Ah × 20	9Ah × 20
PHYSICAL OF BATTERY BANK			
Dimensions D × W × H (mm)		720 × 443 × 131(3U)	
Net weight (kg)		67	75

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