



DATA CENTER

MEDICAL

INDUSTRY

TRANSPORTATION

EMERGENCY

Solutio

3 Phase In – 3 Phase Out / 300kVA – 600kVA

NEW
PRODUCT



- Interleaved 3 Level IGBT Technology
- Real Digital Signal Processor (DSP) controlled transformerless design
- High output power factor (PF:1, kVA=kW)
- Increased AC-AC Efficiency (up to 96.5%)
- High input power factor (PF: ≥ 0.99)
- Low input current (THDi <3%)
- Low output voltage (THDv <2%)
- Wide input voltage range
- Graphical Multi-Functional touch screen display (7" TFT)
- Built-in static & manual Bypass
- On-site parallel connection availability up to 6 units
- Intelligent battery management system & expandable battery autonomy time
- Event log display up to 1024 events
- Advanced communication features; RS232, RS485, ESD (EPO, NO or NC selectable), Genset and USB ports as standard. Modbus & SNMP as optional
- Generator compatible operation mode (Selectable from HMI)
- 50/60Hz Frequency converter operation mode (Selectable from HMI)
- Backfeed protection (Optional)
- Cold start (Optional)
- User friendly input & output connection terminals
- High reliability & performance, thanks to artificial intelligence algorithms



UPS ONLINE

TOWER

USB

LCD DISPLAY
(300-600kVA)

SERVICE

"Interleaved
3 Level"
Technology

Other Features

- Dual Input (Split Bypass) (Optional)
- Temperature controlled battery charging
- Selectable output voltage (220/380V, 230/400V or 240/415V) from HMI
- Selectable output frequency (50/60 Hz) from HMI
- Programmable dry contact board (Optional)
- Easy service with modular architecture
- Temperature controlled fan speed
- Special voltage application & galvanic isolation options
- Ability to operate without batteries
- Frequency converter (50/60 Hz) option
- Availability to disable bypass and inverter from HMI
- Availability to run battery test from HMI or SNMP
- Compatibility with dynamic loads
- Low audible noise, thanks to interleaved 3 Level IGBT Topology
- Advanced on-system diagnosis
- Bypass line temperature protection with temperature control on Bypass thyristor
- High Reliability, Rigid structure
- Advanced statistical data recording



Solutio

TECHNICAL SPECIFICATIONS

MODEL	SOLUTIO 300	SOLUTIO 400	SOLUTIO 500	SOLUTIO 600
Power (kVA)	300	400	500	600
Active Power (kW)	300	400	500	600
INPUT				
Phase	3Ph+N+PE			
Nominal Voltage	380V / 400V / 415V			
Voltage Range (VAC) (100% Load)	[-15%] [+20%]			
Voltage Range (VAC) (50% Load)	[-45%] [+20%]			
Nominal Frequency	50 / 60 Hz			
Frequency Range (Online Mode)	45 - 65 Hz			
Input Current Harmonics (THDi)*	<3%			
Input Power Factor	> 0.99			
OUTPUT				
Phase	3Ph+N+PE			
Nominal Voltage	380V / 400V / 415V (Selectable from HMI)			
Output Power Factor	1.0			
Static Voltage Regulation @ 100% Linear Load	±1%			
Output Voltage Harmonics (THDv)*	< 2% (Linear Load), < 4% (Non-Linear Load)			
Crest Factor	3:1			
Frequency	50/60 Hz (Selectable from HMI)			
Frequency Range [Battery Operation Mode]	50/60 Hz ±0.01%			
Overload	Online – Battery Mode: <125% Load 10 mins, <150% Load 1 min; Bypass Mode: Up to 175%			
Efficiency*	up to 96.5% (Online), >98.5% (Ecomode)			
STATIC BYPASS LINE				
Phase	3Ph+N+PE			
Bypass Voltage Range	380V / 400V / 415V [-15% +10% selectable from HMI]			
Bypass Frequency Range	± 3 Hz (Selectable from HMI)			
Transfer Time	0 msec			
BATTERY				
Battery Type	Maintenance-Free Lead Acid Batteries			
Charge Current (A)**	C/10 (Selectable from HMI)			
Battery Qty (pcs)	60			
Battery Protection	Deep Discharge Protection, Temperature-compensated Battery Charging			
Battery Test	Standard (Automatic & Manual)			
FRONT PANEL DISPLAY (HMI)				
Display	7" TFT Colorful Graphical Touch Screen Display			
Display Measurements	Load Percent, Input/Output/Bypass Voltage, Input/Output Current, Input/Output/Bypass Frequency, Output Power (kW & kVA), Output Power Factor, Battery ± Voltage, DC Bus ± Voltage, Back-up Time, Internal Temperature, Charge-Discharge Current			
Event Log Quantity	1024			
COMMUNICATION				
Interface (Communication Port)	RS232, RS485, ESD (EPO, NO or NC selectable), Genset and USB ports as standard. Modbus & SNMP as optional			
Dry Contact Signals	4pcs Programmable dry contacts (Optional)			
PROTECTION				
	Overload, High Temperature, High Voltage & High Current Protections, Backfeed Protection(Optional), Deep Discharge Protection, Short Circuit Protection			
ENVIRONMENT				
Operating Temperature	0 - 40 °C (20 - 25°C recommended for longer battery life time)			
Storage Temperature	-25 ~ +55 °C			
Max. Operating Altitude	1000m			
Relative Humidity	0 - 95% (non-condensing)			
Audible Noise Level (from 1m distance)	< 70 dBA			
PHYSICAL SPECIFICATIONS				
Dimension (WxDxH) (mm)	1660 x 750 x 1910		1860 x 932 x 1936	
Weight (kg) (W/O Battery)	715	825	-	-
STANDARDS				
Safety	IEC/EN 60950,62040-1			
EMC	IEC/EN 62040-2			
Performance	IEC/EN 62040-3			
Protection Class	IP 20			

*May vary depending on UPS power & Load & Environmental Conditions

**It is limited by 10% of UPS power

***INFORM keeps the right to change the specifications without any notice