

Stark

3 Phase In - 3 Phase Out / 10 – 20kVA

- IGBT Rectifier & Inverter
- Real Digital Signal Processor (DSP) controlled
- Input Power Factor Correction PFC (PF: ≥ 0.99)
- Low Input Total Harmonic Distortion Level (THDi $\leq 3\%$)
- Wide Input Voltage Range
- High Output Power Factor (PF: 0.9)
- Cold Start Availability
- Increased Efficiency with Eco Mode Operation
- Transformerless design
- High Efficiency
- User Friendly LCD/LED Display Panel with functional keypads
- Static and Manual Bypass Built-in
- High charging current
- Fan Speed Control depending on internal temperature and load %
- Wide Communication Option
Standard: RS232, RS485 (ModBus) and EPO
Optional: SNMP, Relay card
- Increased battery supply time (optional)
- Low cost of installation and operating
- Compact dimension with internal battery placement availability



TECHNICAL SPECIFICATIONS

MODEL	STK 3310	STK 3315	STK 3320
Capacity (kVA/kW)	10kVA/9kW	15kVA/13.5kW	20kVA/18kW
INPUT			
Phase	3Ph + N + PE		
Nominal Voltage	380 / 400 / 415 VAC		
Input Voltage Range*	208-478 VAC		
Frequency	50/60 Hz $\pm 10\%$ (Auto-sensing)		
Input Power Factor	≥ 0.99		
Input Current Harmonics (THDi)	$\leq 3\%$		
OUTPUT			
Output Power Factor	0.9		
Phase	3Ph + N + PE		
Nominal Voltage	380 / 400 / 415 VAC (Adjustable from the front panel)		
Output Voltage Harmonic (THDv)	$\leq 2\%$ Linear Load $\leq 5\%$ Nonlinear Load		
Frequency	50Hz or 60Hz (Adjustable from the front panel)		
Frequency Range	Utility Mode: $\pm 1\% \pm 2\% \pm 4\% \pm 5\% \pm 10\%$ of the rated frequency (optional) Battery Mode: (50/60 $\pm 0.2\%$)Hz		
Voltage Regulation	$\pm 1\%$		
Crest Factor	3:1		
Transfer Time	Online Mode-Battery Mode: 0ms; Online Mode-Bypass: 0ms		
Overload	AC Mode: Load $\leq 110\%$: last 60min, $\leq 125\%$: last 10min, $\leq 150\%$: last 1min, $> 150\%$ change to bypass immediately Battery Mode: Load $\leq 110\%$: last 10min, $\leq 125\%$: last 1min, $\leq 150\%$: last 5s, $> 150\%$ shut down UPS immediately up to 94%		
Efficiency**	up to 94%		
BATTERY			
Type	Maintenance-free lead acid batteries		
Recharge Time (for Internal Battery)	4-6h up to 90%		
Internal Battery Quantity/Type (Standard)	16x12V 9 Ah	32x12V 9 Ah	
Battery Quantity (optional)	16/18/20 pcs (optional)	32/34/36/38/40 pcs (optional)	
Standard Charging Current	1.35A	2.7A	
Max Charging Current	6A (Adjustable)		
Cold Start	Present		
ALARMS			
Audible & Visual	Online Failure, Battery Low, Overload, System Fault		
DISPLAY			
Status LED & LCD	Line Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault		
LCD Display	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage & Inner Temperature		
PROTECTION			
	Overload, Short Circuit, Overheat, Battery Low,		
COMMUNICATION***			
	Standard:RS232, RS485, EPO Optional: SNMP card and Relay card		
ENVIRONMENT			
Operating Temperature	0°C - 40°C (20°C - 25°C recommended range for long battery life)		
Storage Temperature	-25°C - +55°C		
Humidity	0 - 95% (non-condensing)		
Altitude	1500 m		
Noise Level (1m distance)	< 55 dB		
Protection Class	IP20		
PHYSICAL			
Dimensions (mm) (WxDxH)	250x645x715	250x645x868	
Net Weigh (without batteries) (kg)	42	53	54
Net Weigh (with batteries) (kg)	80	120	121
STANDARDS			
	EN62040-1-1 (Safety); EN62040-2 (EMC)		

* Depends on the power rating and the amount of load at the output of UPS.

** It depends on UPS power and environmental conditions.

***Please contact to your sales representative for communication options.