🖲 inform

STARK Series

On-Line "Double Conversion" Technology, DSP Controlled IGBT Rectifier UPS 3 phase in / 3phase out 10 to 40kVA

- ► IGBT Rectifier
- ▶ Real Digital Signal Processor (DSP) controlled transformerless design
- ► High Output Power Factor (p.f.: 0,9)
- Input Power Factor Correction PFC(>0,99)
- ▶ Low Input Total Harmonic Distortion Level (THDi ≤ 3%)
- ► High Efficiency (up to 93%)
- ► Wide Input Voltage Range
- Cold Start Availability
- ► Increased Efficiency with Eco Mode Operation
- ► Fan Speed Control depending on internal temperature and load %
- Parallel Redundant Operation up to 4 Units
- Common Battery Application availability at Parallel Systems
- Configurable Battery Qty
 - 16, 18 or 20pcs @ 10 to 30kVA / 32, 34, 36 or 40pcs @ 40kVA)
- ► 3 Step Intelligent battery charging system
- Static and Manual Bypass Built-in
- User Friendly LCD/LED Display Panel with functional keypads
- Remaining back up time indication on the LCD Display panel
- Power derating operation availability at high temperature and altitude
- ► EPO (Emergency Power Off) Function
- Short Circuit, Overload, Overtemperature, Deep Discharge protections
- ▶ USB, RS232, RS485 & Dry Contact Communication Ports
- Compact dimension with internal battery placement availability

Accessories Options

- Additional Relay Card
- SNMP Card(Internal)
- Parallel Connection Cable

Battery Cabinets

• UPS looking battery Cabinets (different battery configuration available) V14, V15, V24, V33, V34

• Eco Cabinets (different battery configurations available) BCOO, BC10, BC20, BC30, BC40, BC50, BC60





STARK Series Specifications

MODEL	ST3310	ST3315	ST3320	ST3330	ST3340
Power (kVA)	10	15	20	30	40
Power (kW)	9	13,5	18	27	36
INPUT	7	2,21	10	27	50
Phase Configuration			3Ph + N + PE		
Nominal Voltage	380 / 400 / 415 VAC				
Voltage Range (Full Load)	304-478 323-478				
Voltage Range (Half Load)	208-478				
Frequency	50/60 Hz ±10% (auto sensing)				
Power Factor	0,99				
Total Harmonic Distortion (THDi)	3%				
OUTPUT			5.0		
Power Factor			0,9		
Phase Configuration	3Ph + N + PE				
Nominal Voltage	380 / 400 / 415 VAC (adjustable)				
Wave Form	Pure Sine Wave				
	≤2% with linear load				
Total Harmonic Distortion at 100% load	≤5% with non linear load				
Frequency	50Hz or 60Hz (adjustable)				
Frequency Tolerance (free running)	(50/60±0.2%)Hz (a) Battery Operation				
Static Voltage Regulation (0%-100% load)	<1%				
Crest Factor	3:1				
Transfer Time	Osec				
Overload	60 min @ (%100-%110)				
	10 min @ (%110-%125)				
	l min (a) (%125-%150)				
	Transfers to Bypass @ ≥%150 (On-line Mode)				
Total Efficiency			Up to 93%		
BATTERY					
Туре	Maintenance-free lead acid batteries				
Recharge Time (for Internal Battery)	4-6h up to 90%				
Quantity per String	16/18/20pcs 32/34/36/38/40pcs				
Internal Battery Type	7Ah, 9Ah None				
Internal Battery Quantity		Up to 40pcs		Up to 60pcs	None
Standard Charging Current	1,35A	2	7A	4A	10A
Max Charging Current	10A				
Cold Start	Present				
DISPLAY					
Operation Modes	Normal Mode, Back up Mode, Eco Mode, Parallel Mode				
LCD display	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load%, Battery Voltage, Battery Current, Autonomy Time, Temperature				
PROTECTION		,	atonomy nine, rempere		
TROTECTION .		Overload Over \	/oltage, Overheat, Short	Circuit Low Battery	
COMMUNICATION		Ovendad, Over	follage, Overneat, Short	Circuit, Eow Battery	
Interface (Communication ports)	USB, RS485, 3pcs Dry Contact Signal				
Dry Contact (standard)	UPS Battery Low, AC Power Failure, Shut down UPS				
ENVIRONMENT					
Storage Temperature		-25°C - +55°C (15 to	40°C recommended for	onger batterv life time)	
Operating Temperature	-25°C - +55°C (15 to 40°C recommended for longer battery life time) 0°C - 40°C (20 to 25°C recommended for longer battery life time)				
Humidity	up to 95% (non-condensing)				
Max. Altitude without derating	up to 1000 meters				
Audible Noise at 1 m	<55 dB <58 dB				
Protection Class	IP20				
PHYSICAL SPECIFICATIONS			-		
Dimensions(mm) (WxDxH)			250x828x868		
Weight - without battery (kg)	57	63	64	71	73
STANDARDS					
Standards	EN62040-1-1 (Safety); EN62040-2 (EMC)				
ACCESORIES					
Optional			IMP & Additional Relay E		
optioniti		اد. 			

