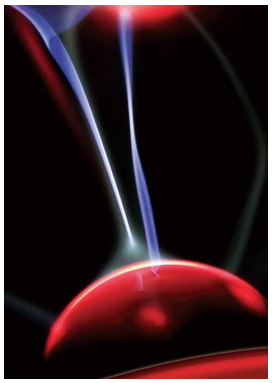
Tri-One 10K-15K-20K

Three-phase input / Single-phase output UPS



ELSIST

Uninterruptible Power Supplies

TECHNICAL SPECIFICATION

MODEL		TRI-ONE10000	TRI-ONE15000	TRI-ONE20000
NOMINAL POWER		10KVA / 9KW	15KVA / 13,5KW	20KVA / 18KW
INPUT	Input	Three-phase		
	Power Factor	≥ 0.99		
	Nominal Voltage	220VAC / 230VAC / 240VAC (auto selection)		
	Nominal Frequency	50Hz/60Hz (Selectable)		
	Voltage Range	208 ~ 478Vac		
	Frequency Range	45 ~ 55Hz (50Hz) - 55 ~ 65Hz (60Hz)		
	Bypass voltage range	220Vac max：default +25% (+10%, +15%, +20%) optional 230Vac max：default +20% (+10%, +15%) optional 240Vac max：default +15% (+10%) optional		
		min：default -45%(-20%, -30%) optional		
	Bypass frequency range	±1% - ±2% - ±4% - ±5% - ±10%		
BATTERY	Number of batteries	16 Standard 18/20 optional (embedded)	16/18/20 (on external cabinet)	
	Type	12V - 9Ah		
		Maintenance-free Lead-acid (VRLA)		
	Charging type	FAst recharge or floating automatically selected		
	Recharging time	Fast up to 20h (Max)		
	Max recharging current	1A	10A	
OUTPUT	Output	Sigle-phase		
	Voltage tolerance	±1.0%		
	Voltage distortion (THD)	Less than 2% with 100% linear load		
		Less than 5% with 100% non-linear load		
	Nominal voltage	220V/230V/240Vac ±1.0%		
	Frequency regulation	±0.1% (single unit)		
		±0.25% (more units in parallel)		
	Frequency	Mains On: same as Mains (Phase A)		
		In battery mode: 50Hz / 60Hz ±0.1Hz		
	Frequency synchronization	1Hz/s (single unit)		
		0.5Hz/s (more units in parallel)		
	Overload with Mains present	105 % ~ 110 %, for max 1h		
		110% ~ 125%, for max 10 min		
		125% ~ 150%, for max 1 min		
		＞150% switch to bypass		
	Overload on bypass	Feed the load for long time if output current is below 125%		
		Overload on Bypass is limited by the breaker rating.		
	Crest Factor	3:1		
	Efficiency AC 100%	93.5%	94.5%	
	Dynamic response	± 5.0%		
		40ms		
	DC component	≤100mV		

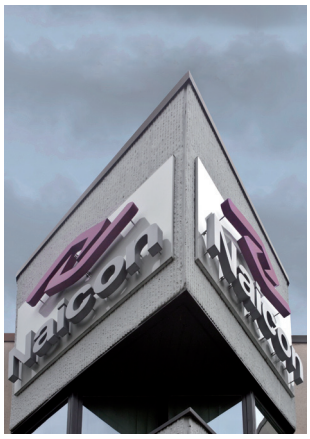
MODEL		TRI-ONE10000	TRI-ONE15000	TRI-ONE20000
NOMINAL VOLTAGE		10KVA / 8KW	15KVA / 12KW	20KVA / 16KW
SWITCH TIME	From Mains to battery	0ms		
	From inverter to bypass	0ms (synchronous) <15ms (50Hz), <13.33ms (60Hz) (asynchronous)		
Noise		<55dB (1m)		
Display		LED + LCD		
Safety		Compliant to IEC62040-3		
EMI		Conduction：IEC 62040-3		
		Radiation：IEC 62040-3		
		Armonics：IEC 62040-3		
EMS		IEC 62040-3		
MTBF		250,000 hours		
Insulating resistance		> 2MΩ (500Vdc)		
Voltage isolation		2820Vdc, <3.5mA, 1min		
Voltage surge		Compliant to IEC60664-1 1.2/50uS+8/20uS 6KV/3KA		
IP protection grade		IP20		

Environment

MODEL	TRI-ONE10000	TRI-ONE15000	TRI-ONE20000
Temperature	0°C ~ 40°C (batteries not included)		
Humidity	0 ~ 95% non condensing		
Altitude	<1500m if >1500m power is reduced		

Mechanical

MODEL	TRI-ONE10000	TRI-ONE15000	TRI-ONE20000
Height (mm)	655	616	
Width (mm)	250	250	
Depth (mm)	597	502	
Weight (Kg)	76	45	
Color	Black		



NaiconGroup

Naicon srl Via il Caravaggio, 25 Trecella
I-20060 Pozzuolo Martesana - Milano (Italy)
Tel. +39 02 95.003.1 Fax +39 02 95.003.313
www.naicon.com e-mail: naicon@naicon.com