UNINTERRUPTIBLE POWER SUPPLY

UPS

TRIMOD UPS MODULAR THREE-PHASE from 10 to 60kVA







TRIMOD MODULAR THREE-PHASE

Modular and upgradable with power from 10 to 60kVA in compact structures with a reduced footprint.

The completely modular structure enables programming each individual power module in order to obtain the desired input/output configuration.

It is possible to manage three-phase or single-phase output and input voltage in order to choose, 3-3 phases, 3-1 phases, 1-3 phases and 1-1 phase.

Furthermore, it is possible to obtain single-phase and three-phase output lines simultaneously or two or more single-phase lines, even of different power levels (upon request).



The TRIMOD system is completely managed by a microprocessor and using the keyboard on the LCD display it is possible to:

- set and view operational data in real time
- configure and control parameters for each power module
- access event logs
- complete functional tests





Compact and reduced footprint versions

The compact dimensions, the vertical build of the structure and 2 small wheels located in the rear help with positioning and transporting the UPS, even in rooms that are not easy to access.



TRIMOD

EXCLUSIVE FEATURES

Power scalability

Power expansion, for both product families, can always be obtained within the same cabinet in an extremely simple and immediate manner, without the need to re-configure the system and UPS.







TRIMOD 10 to 60 kVA



Scalability uptime

Based on UPS power and the request for uptime, expansion may take place both in the same cabinet, adding battery slots or in additional battery cabinets.

Compact non modular battery cabinets that further extend uptime reaching a level of hours, are also available.

TRIMOD

Modular three-phase UPS with double conversion VFI









3 108 43

Pack.	ltem	UPS			
		NOMINAL POWER	UPTIME (MIN.) 80%	NO. CABINET	WEIGHT (kg)
		KVA	OF THE LOAD		
	3 103 99	10	11'	1	167
	3 104 00	10	17'	1	223
	3 104 01	10	35'	1	279
	3 104 00 + 3 107 57	10	54'	2	471
	3 104 00 + 3 107 58	10	68'	2	527
	3 104 05	15	13'	1	220
	3 104 06	15	21'	1	279
	3 104 06 + 3 107 60	15	33'	2	413
	3 104 06 + 3 107 63	15	57'	2	550
	3 104 04 + 3 108 08	15	109'*	2	865
	3 104 11	20	9'	1	220
	3 104 12	20	14'	1	279
	3 104 12 + 3 107 58	20	35'	2	572
	3 104 12 + 3 108 08	20	81'*	2	865
	3 104 12 + 2 x 3 107 58	20	59'	3	574
	3 104 16 + 3 107 57	30	6'	2	378
	3 104 16 + 3 107 58	30	12'	2	434
	3 104 16 + 3 108 09	30	50'*	2	890
	3 104 16 + 2 x 3 108 09	30	109' *	3	1645
	3 104 21 + 3 107 63	40	8'	2	564
	3 104 21 + 2 x 3 107 58	40	16'	3	801
	3 104 21 + 3 108 10	40	33'*	2	925
	3 104 21 + 3 x 3 107 59	40	38'	4	439
	3 104 21 + 4 x 3 107 64	40	60'	5	1663
	3 104 21 + 3 x 3 108 10	40	120'*	4	2430
	3 104 28 + 2 x 3 107 58	60	9'	3	830
	3 104 28 + 2 x 3 107 64	60	15'	3	942
	3 104 28 + 3 108 11	60	17'*	2	952
	3 104 28 + 3 x 3 107 64 + 3 107 60	60	32'	5	1579
	3 104 28 + 2 x 3 108 11	60	50'*	3	1715
	3 104 28 + 3 x 3 108 11	60	80'*	3 4	2474
	3 104 28 + 4 x 3 108 11	60	110' *	5	3234
	J 10420 T 4X3 100 11	UU	110	J	JZJ4

^{*} Configurations with battery cabinets [20 x 94 Ah]. Battery cabinet dimensions and weight: A x L x P 1635 x 600 x 800 (mm), 785 kg

Pack.	Item	POWER CA	BINETS			
		NOMINAL POWER KVA	ACTIVE POWER KW	UPTIME (MIN.) 80% OF THE LOAD	NO. CABINET	WEIGHT (kg)
	3 103 98	10	9	0'	1	120
	3 104 04	15	13.5	0'	1	120
	3 104 10	20	18	0'	1	120
	3 104 16	30	27	0'	1	146
	3 104 21	40	36	0'	1	146
	3 104 28	60	54	0'	1	165

	POWER CA	BINETS (EM	PTY)	
	NO. POWER MODULES	NO. BATTERY MODULES	POWER MODULE TYPES	NO. PHASES
3 104 36	3	12	3 x 3,4 kVA	1-1/3-3/3-1/1-3
3 104 37	3	12	3 x 5 o 6,7 kVA	1-1/3-3/3-1/1-3
3 104 38	6	-	6 x 3,4 kVA	3-3
3 104 39	6	-	6 x 5kVA	1-1/3-3/3-1/1-3
3 104 40	6	-	6 x 6,7kVA	3-3
3 104 41	9	-	9 x 6,7kVA	3-3

3 104 41	9	-	9 x 6,7kVA	3-3
	ACCESSORIES			
	DESCRIPTION	411/4		
3 108 36	Power module 3.			
3 108 38	Power module 5			
3 108 40	Power module 6.			
3 108 51	Additional 5kVA b	oattery (charge module for expa	insions
	ACCESSORIES F	OR BA	TTERIES	
	DESCRIPTION			
3 108 54	Kit of 4 empty ba	,		
3 108 43			oatteries (installable in	
3 108 45	Single slot with 5	x9Ah ba	tteries (installable in n	nultiples of 4)
	ADDITIONAL B	ATTER	Y CABINETS	
	DESCRIPTION			
3 108 05	•		t (empty) with 16 tra	
3 108 06			t (empty) with 20 tra	
3 107 55			t with 4 battery trays	
3 107 56			t with 8 battery trays	
3 107 57			t with 12 battery tray	
3 107 58			t with 16 battery tray	
3 107 59			t with 20 battery tray	
3 107 60			t with 4 battery trays	
3 107 61			t with 8 battery trays	
3 107 62			t with 12 battery tray	
3 107 63			t with 16 battery tray	
3 107 64			t with 20 battery tray	s (9 An)
3 108 07	10kVA battery co 94 Ah long life b	abinet i atterie:	or ups with 20, S	
3 108 08	20kVA battery c	abinet f	or UPS with 20,	
	94 Ah long life b	atterie	S	
3 108 09	30kVA battery co 94 Ah long life b			
3 108 10	40kVA battery c	abinet 1	for UPS with 20,	
	94 Ah long life b			
3 108 11	60kVA battery co	abinet f	or UPS with 20,	



TRIMOD

Modular three-phase UPS with double conversion VFI

ltem	3 103 98					3 104 28
General Features						
Nominal Power (kVA)	10	15	20	30	40	60
Active power (kW)	9	13,5	18	27	36	54
Module Power (kVA)	3,4	5	6,7	5	6,7	6,7
Technology	On-Line Double Conversion VFI-SS-111					
System	Modular, expandable and redundant UPS in a single cabinet redundant UPS s					
Input features						
Input voltage	230V 1F+N,	400V3F+N		400V3F	+ Neutral	
Input frequency	50-60 Hz ±2% Autosensing					
Input Voltage Range	400	OV +15%/-20%	- 230V +15%/-2	0%	400V +15	5%/-20%
THD Input Current			< 3	3%	·	
Compatibility with Power-Supply Units	Configurable in order to achieve synchronism between input and output frequencies, even for wider frequency ranges, ±14%					
Input Power Factor			> 0	1,99		
Output features						
Output voltage	2	30V, 400V 3F +I	٧	4	400V 3F + Neutr	al
Performance at Full Load			95	5%		
Nominal output frequency		50/60	Hz can be sele	cted by the use	r ±1 Hz	
Crest Factor			1:3	3,5		
Output Voltage Tolerance				%		
Allowed Overload		100 s	econds at 125%	. 30 seconds at	t 150%	
Performance in Eco Mode				3%		
Bypass		Διι	tomatic and ma		ass	
Batteries						
Battery Module	The b				ed inside the cal	oinet.
Battery Series Type/Voltage	No particular operation is necessary to connect them VRLA - AGM / 240 Vdc (internal redundant series)					
Batter y Series Type, Voltage		VRLA - A	3M / 240 Vdc (ir	iternal redunda	ant series)	
Uptime	Configural				ant series) additional batter	y cabinets
Uptime	Configura	ble and expand	able both interi	nally and with a	additional batter	y cabinets
Uptime Battery Charge	Configural	ble and expand		nally and with a	additional batter	y cabinets
Uptime Battery Charge	J	ble and expand Smart Ch	able both interi arge technolog enu browsing b	nally and with a y. 3-stage adva	additional batter	,
Uptime Battery Charge Configuration and management	4 rows/20 c	Smart Cha	able both interi arge technolog enu browsing b alarms and a	nally and with a y. 3-stage adva outtons, multi-c audio signals	additional batter	us indicator,
Uptime Battery Charge Configuration and management Display and Signals Communication Ports	4 rows/20 c	Smart Cha	able both interi arge technolog enu browsing b alarms and a gical gate, 4 por	nally and with a y. 3-stage adva outtons, multi-c audio signals	additional batter inced cycle colour LED state	us indicator,
Uptime Battery Charge Configuration and management Display and Signals Communication Ports Emergency Power Off (EPO)	4 rows/20 c	Smart Cha	able both interi arge technolog enu browsing b alarms and a gical gate, 4 por	nally and with a y. 3-stage adva outtons, multi-c audio signals outs with dry con	additional batter inced cycle colour LED state	us indicator,
Uptime Battery Charge Configuration and management Display and Signals Communication Ports Emergency Power Off (EPO) Remote Management	4 rows/20 c	Smart Cha	able both interi arge technolog enu browsing b alarms and a gical gate, 4 por	nally and with a y. 3-stage adva outtons, multi-c audio signals tts with dry con	additional batter inced cycle colour LED state	us indicator,
Uptime Battery Charge Configuration and management Display and Signals Communication Ports Emergency Power Off (EPO) Remote Management Physical features	4 rows/20 c	Smart Cha	able both interrange technolog enu browsing b alarms and a gical gate, 4 por Ya	nally and with a y. 3-stage adva outtons, multi-c audio signals rts with dry con es lable	additional batter inced cycle colour LED state	us indicator,
Uptime Battery Charge Configuration and management Display and Signals Communication Ports Emergency Power Off (EPO) Remote Management Physical features Dimensions (H x W x D) (mm)	4 rows/20 c	Smart Cha Smart Cha haracters, 4 m	able both interrange technolog enu browsing b alarms and a gical gate, 4 por Ya	nally and with a y. 3-stage adva outtons, multi-caudio signals its with dry con es lable	ndditional batter inced cycle colour LED state itacts, 1 slots fo	us indicator,
Uptime Battery Charge Configuration and management Display and Signals Communication Ports Emergency Power Off (EPO) Remote Management Physical features Dimensions (H x W x D) (mm) Installed Power Modules	4 rows/20 c	Smart Characters, 4 m	able both interrange technolog enu browsing b alarms and a gical gate, 4 por Ya	nally and with a y. 3-stage adva nuttons, multi-caudio signals ets with dry con es lable	additional batter inced cycle colour LED state stacts, 1 slots fo	us indicator,
Uptime Battery Charge Configuration and management Display and Signals Communication Ports Emergency Power Off (EPO) Remote Management Physical features Dimensions (H x W x D) (mm) Installed Power Modules Installable Battery Slots	4 rows/20 c	smart Chi Smart Chi haracters, 4 m rial ports, 1 Log 3 Up to 12	able both interrange technolog enu browsing b alarms and a gical gate, 4 por Ya	nally and with a y. 3-stage adva puttons, multi-c audio signals ets with dry con as lable 14 x 628 6 -	additional batter inced cycle colour LED state stacts, 1 slots fo	us indicator, r interfaces
Uptime Battery Charge Configuration and management Display and Signals Communication Ports Emergency Power Off (EPO) Remote Management Physical features Dimensions (H x W x D) (mm) Installed Power Modules Installable Battery Slots Net Weight (kg)	4 rows/20 c	Smart Characters, 4 m	able both interrange technolog enu browsing b alarms and a gical gate, 4 por Ya	nally and with a y. 3-stage adva nuttons, multi-caudio signals ets with dry con es lable	additional batter inced cycle colour LED state stacts, 1 slots fo	us indicator,
Uptime Battery Charge Configuration and management Display and Signals Communication Ports Emergency Power Off (EPO) Remote Management Physical features Dimensions (H x W x D) (mm) Installed Power Modules Installable Battery Slots Net Weight (kg)	4 rows/20 c	smart Chi Smart Chi haracters, 4 m rial ports, 1 Log 3 Up to 12	able both interrange technology enu browsing balarms and a gical gate, 4 por You Avai	nally and with a y. 3-stage adva outtons, multi-c audio signals rts with dry con es lable 6 - 130	additional batter inced cycle colour LED state stacts, 1 slots fo	us indicator, r interfaces
Uptime Battery Charge Configuration and management Display and Signals Communication Ports Emergency Power Off (EPO) Remote Management Physical features Dimensions (H x W x D) (mm) Installed Power Modules Installable Battery Slots Net Weight (kg) Environmental conditions Operating Temperature/Humidity	4 rows/20 c	smart Chi Smart Chi haracters, 4 m rial ports, 1 Log 3 Up to 12	able both internance technology enu browsing be alarms and a gical gate, 4 por Yo Avai 1345 x 4	nally and with a y. 3-stage advantage and y. 3	additional batter inced cycle colour LED state stacts, 1 slots fo	us indicator, r interfaces
Uptime Battery Charge Configuration and management Display and Signals Communication Ports Emergency Power Off (EPO) Remote Management Physical features Dimensions (H x W x D) (mm) Installed Power Modules Installable Battery Slots Net Weight (kg) Environmental conditions Operating Temperature/Humidity Degree of protection	4 rows/20 c	smart Chi Smart Chi haracters, 4 m rial ports, 1 Log 3 Up to 12	able both interrange technology enu browsing be alarms and a gical gate, 4 por Yo Avai 1345 x 4	nally and with a y. 3-stage adva puttons, multi-caudio signals ets with dry conces lable 14 x 628 6 - 130 720 - 80% 21	additional batter inced cycle colour LED state stacts, 1 slots fo	us indicator, r interfaces
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Uptime Battery Charge Configuration and management Display and Signals Communication Ports Emergency Power Off (EPO) Remote Management Physical features Dimensions (H x W x D) (mm) Installed Power Modules Installable Battery Slots Net Weight (kg) Environmental conditions Operating Temperature/Humidity Degree of protection Maximum Audible Noise at 1 m from the Unit (dBA) Heat Loss (BTU/h) Conformity Certifications Standard Warranty Services	4 rows/20 c 2 RS232 set	shle and expand Smart Chi haracters, 4 m rial ports, 1 Log 3 Up to 12 120 2155 EN	able both interrarge technology enu browsing balarms and a gical gate, 4 por Yu Avai 1345 x 4 0 - 40 °C, IP 2873 62040-2, EN 62 2-year v	nally and with a y. 3-stage adva v. 3-stage adva v. 4-stage ad	dditional batter inced cycle colour LED state stacts, 1 slots for 6 - 130 5746	y sindicator, r interfaces 9 - 150 8619
Uptime Battery Charge Configuration and management Display and Signals Communication Ports Emergency Power Off (EPO) Remote Management Physical features Dimensions (H x W x D) (mm) Installed Power Modules Installable Battery Slots Net Weight (kg) Environmental conditions Operating Temperature/Humidity Degree of protection Maximum Audible Noise at 1 m from the Unit (dBA) Heat Loss (BTU/h) Conformity Certifications Standard Warranty Services	4 rows/20 c 2 RS232 set	shle and expand Smart Chi haracters, 4 m rial ports, 1 Log 3 Up to 12 120 2155 EN	able both interrarge technology enu browsing balarms and a gical gate, 4 por Yu Avai 1345 x 4 0 - 40 °C, IP 2873 62040-2, EN 62 2-year v	nally and with a y. 3-stage adva v. 3-stage adva v. 4. 3-stage adva v. 4. 3-stage adva v. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	dditional batter inced cycle colour LED state stacts, 1 slots for 130 5746 40-1	y sindicator, r interfaces 9 - 150 8619



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