

TRIMOD

UPS
MODULAR
THREE-PHASE
from 10 to 60kVA



GLOBAL SPECIALIST IN ELECTRICAL
AND DIGITAL BUILDING INFRASTRUCTURES

 **legrand**[®]

TRIMOD

EXCLUSIVE CHARACTERISTICS

Expanding the power

The power can be increased very quickly and easily inside the cabinet itself for both product families, without the need to reconfigure the installation or the UPS.



TRIMOD
from 10 to 60 kVA



Extending the backup time

The backup time can be extended either by adding battery trays in the same cabinet or by adding another battery cabinet, depending on the power of the UPS and the backup time required. Non-modular compact battery cabinets are also available for extending the backup time to several hours.

TRIMOD THREE-PHASE MODULAR UPS

Space-saving modular
and expandable with
powers from 10 to 60 kVA
in a compact structure.

The totally modular design of TRIMOD UPS enables each power module to be programmed to obtain the required I/O configuration.

It is possible to have three-phase or single phase voltage inputs and outputs to obtain one of the following configurations: three-phase/three-phase, three-phase/single phase, single phase/three-phase or single phase/single phase. It is also possible to have single phase and three-phase output lines simultaneously, or several single phase of different powers (optional).

Control screen

The TRIMOD system is totally controlled by a microprocessor. Using the LCD screen and the keypad, it is possible to:

- Set and view the operating data in real time
- Configure and control the parameters of each power module
- Access the event logs
- Perform a series of functional tests



Compact, space-saving versions

The compact size, low vertical structure and the 2 small wheels at the back make it easy to position and transport the UPS, even in locations that are difficult to access.



TRIMOD

Double conversion VFI three-phase modular UPS



3 103 99



3 108 40



3 108 43

Pack	Cat. Nos.	POWER CABINET				
		NOMINAL POWER kVA	ACTIVE POWER kW	BACKUP TIME (min)	NUMBER OF CABINETS	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 CABINET (EMPTY)				
	NO. OF POWER MODULES	NO. OF BATTERY MODULES	TYPE OF POWER MODULE	NO. OF 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 or 6.7 kVA	1-1/3-3/3-1/1-3
3 104 38	6	-	6 x 5 kVA	3-3
3 104 39	6	-	6 x 5 kVA	1-1/3-3/3-1/1-3
3 104 40	6	-	6 x 6.7 kVA	3-3
3 104 41	9	-	9 x 6.7 kVA	3-3

Pack	Cat. Nos.	UPS			
		NOMINAL POWER (kVA)	BACKUP TIME (min)	NUMBER OF CABINETS	WEIGHT (kg)
	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	110 *	2	865
	3 104 11	20	9	1	220
	3 104 12	20	14	1	279
	3 104 12 + 3 107 62	20	35	2	572
	3 104 10 + 3 108 08	20	82 *	2	865
	3 104 12 + 3 107 63 + 3 107 62	20	59	3	574
	3 104 16 + 3 107 57	30	5	2	378
	3 104 16 + 3 107 63	30	12	2	434
	3 104 16 + 3 108 09	30	50 *	2	890
	3 104 16 + 2 x 3 108 09	30	110 *	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 + 2 x 3,108 10	40	82 *	3	1700
	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	14	3	942
	3 104 28 + 3 108 11	60	17 *	2	952
	3 104 28 + 4 x 3 107 63	60	27	5	1579
	3 104 28 + 2 x 3,108 11	60	50 *	3	1715
	3 104 28 + 3 x 3,108 11	60	82 *	4	2474
	3 104 28 + 4 x 3,108 11	60	110 *	5	3234

ACCESSORIES	
	DESCRIPTION
3 108 36	3.4 kVA power module
3 108 38	5 kVA power module
3 108 40	6.7 kVA power module
3 108 51	Additional charger module

ACCESSORIES FOR BATTERIES	
	DESCRIPTION
3 108 54	Kit of 4 empty battery trays
3 108 43	Single battery tray with 5 x 7.2 Ah batteries (can be installed in multiples of 4)
3 108 45	Single battery tray with 5 x 9 Ah batteries (can be installed in multiples of 4)

ADDITIONAL BATTERY CABINETS	
	DESCRIPTION
3 108 05	Modular battery cabinet (empty) with 16 trays.
3 108 06	Modular battery cabinet (empty) with 20 trays.
3 107 55	Modular battery cabinet with 4 battery trays (7.2 Ah)
3 107 56	Modular battery cabinet with 8 battery trays (7.2 Ah)
3 107 57	Modular battery cabinet with 12 battery trays (7.2 Ah)
3 107 58	Modular battery cabinet with 16 battery trays (7.2 Ah)
3 107 59	Modular battery cabinet with 20 battery trays (7.2 Ah)
3 107 60	Modular battery cabinet with 4 battery trays (9 Ah)
3 107 61	Modular battery cabinet with 8 battery trays (9 Ah)
3 107 62	Modular battery cabinet with 12 battery trays (9 Ah)
3 107 63	Modular battery cabinet with 16 battery trays (9 Ah)
3 107 64	Modular battery cabinet with 20 battery trays (9 Ah)
3 108 07	Battery cabinet for 10 kVA UPS with 20 x 94 Ah long life batteries
3 108 08	Battery cabinet for 20 kVA UPS with 20 x 94 Ah long life batteries
3 108 09	Battery cabinet for 30 kVA UPS with 20 x 94 Ah long life batteries
3 108 10	Battery cabinet for 40 kVA UPS with 20 x 94 Ah long life batteries
3 108 11	Battery cabinet for 60 kVA UPS with 20 x 94 Ah long life batteries

* Configurations with battery cabinet (20 x 94 Ah).
Battery cabinet dimensions and weight: H x W x D 1635 x 600 x 800 (mm), 785 kg

NOTE: The backup times, expressed in minutes, are measured under optimum operating conditions.

TRIMOD

Double conversion VFI three-phase modular UPS

Cat. Nos.	3 103 98	3 104 04	3 104 10	3 104 16	3 104 21	3 104 28	
General characteristics							
	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 in a single cabinet/expandable and redundant modular system					
Input characteristics							
	Input voltage	230 V 1P+N, 400 V 3P+N				400 V 3P+N	
	Input frequency	50-60 Hz ± 2% autosensing					
	Input voltage range	400 V +15%/-20% - 230 V +15%/-20%				400 V +15%/-20%	
	THD of input current	< 3%					
	Compatibility with gensets	Configurable for synchronism between the input and output frequencies, even for the highest frequency ranges, ± 14%					
	Input power factor	> 0.99 at 20% load					
Output characteristics							
	Output voltage	230 V 1P+N, 400 V 3P +N				400 V 3P + N	
	Efficiency	Up to 95%					
	Nominal output frequency	50/60 Hz can be selected by the user ±1 Hz					
	Peak factor	3.5:1					
	Tolerance on output voltage	± 1%					
	Permitted overload	10 minutes at 125% and 60 seconds at 150%					
	Efficiency in Eco mode	98%					
	Bypass	Automatic and maintenance bypass					
Batteries							
	Battery module	The battery modules are designed for easy insertion in the cabinet. No special operation is required to connect them					
	Battery range type/voltage	VRLA - AGM/240 VDC (internal redundant range)					
	Backup time	Configurable and extendable, both internally and with additional battery cabinets					
	Battery charging	Smart Charge technology 3-step advanced cycle					
Communication and management							
	Screen and signalling	4 x 20-character lines, 4 menu navigation buttons, multi-coloured LED status indicator, alarms and audible signalling					
	Communication ports	2 x RS232 serial ports, 1 logic level port, 4 volt-free contact ports, 1 slot for interfaces					
	Back-feed protection	N/C + N/O auxiliary contact					
	Emergency stop	Yes					
	Remote control	Available					
Physical characteristics							
	Dimensions (H x W x D) (mm)	1370 x 414 x 628					
	Installed power modules	3			6	6	9
	Installable battery modules	Up to 12			-	-	-
	Net weight (kg)	120			146	146	165
Ambient conditions							
	Operating temperature/humidity	0 - 40°C/20 - 80%					
	Protection index	IP 21					
	Maximum noise audible at 1 m (dBA)	46					
	Heat dissipation (BTU/h)	1436	2155	2873	4310	5746	8619
Conformity							
	Certifications	EN 62040-2, EN 62040-3, EN 62040-1					
Services							
	Installation	Can be carried out by the user, modular architecture with “plug and play” power modules and batteries					
	Maintenance	Can be carried out by the user, optional services available from the manufacturer					
	Easy management	Advanced diagnostic functions on the screen					



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