

UNINTERRUPTIBLE POWER SUPPLY

UPS

ARCHIMOD UPS
MODULAR
THREE-PHASE
from 20 to 120kVA



THE GLOBAL SPECIALIST
IN ELECTRICAL AND DIGITAL BUILDING INFRASTRUCTURES

 **legrand**[®]

ARCHIMOD MODULAR THREE-PHASE

Efficiency up
to 95% when in
ON LINE MODE

Standard modules
with self-configurable
Plug&Play system

Power factor close
to 1 at input

Multi IN/OUT to obtain
different three-phase
or single-phase
configurations ON SITE



ARCHIMOD is the UPS with a modular and expandable architecture with power from 20 to 120kVA, in 19 inch rack cabinet.

The system is made from a set of standard and pre-assembled components that allow simplifying and speeding up the design and completion process for infrastructures.

MODULAR ARCHITECTURE

1 Control logics

Equipped with microprocessor, it manages 3 power modules. If combined with a power expansion module, it can manage up to 6 power modules, thus increasing power from 20 to 40kVA. It comes equipped with a multifunction display and keyboard to monitor UPS operating parameters, and to configure numerous functions.

It can be connected in parallel to other control modules and with power modules.

On the front side, there is a backlit status indicator to immediately identify the system's operation status, and an RS232 communication port for maintenance.

2 Power modules

Power modules, with power equal to 6.7 kVA, are extremely compact and easy to move. Equipped with a plug-in and real hot-swap system, installation and maintenance is quick. They work in parallel with all modules to guarantee maximum system performance.

3 Power expansion module

It must be combined with a control module. Power can be increased from 20 to 40 kVA, and redundancy on single-phase can be set.

4 Battery module

Each module has batteries that can be connected to others in series, creating independent strings. The compactness and functionality of individual modules (plug-in) means they can be easily moved and expanded without changing the installed solution (flexibility and scalability).

5 Distribution

UPS can be configured directly on site into different distribution systems (three-three, three-single, single-single and single-three). Inside there are terminal blocks for in-out connection, movement and protection components, and the predisposition for additional battery cabinets. Power supply can be configured on two separate input networks (primary and emergency by-pass).

6 Input cable

Input cable compartments allow inserting in-out connection cables at both the top and bottom.



ARCHIMOD

Modular three-phase UPS with double conversion VFI



3 104 54



3 108 55



3 108 40

Pack.	Item	CONFIGURABLE CABINETS				
		The cabinets are supplied empty and are pre-set for power and uptime as indicated in the table				
		NOMINAL POWER KVA	NO. BATTERY MODULES	NO. MODULES FOR CONTROL	NO. MODULES FOR POWER EXPANSION	NO. PHASES
	3 104 51*	20	12	1	-	3-1/3-3
	3 104 52	20	30	1	-	3-1/3-3
	3 104 53	40	24	2	-	3-3/3-3
	3 104 54	60	18	3	-	3-3
	3 104 55	80	-	3	1	3-3
	3 104 56	100	-	3	2	3-3
	3 104 57	120	-	3	3	3-3

* cabinet with 18 rack units available

ADDITIONAL CABINETS FOR BATTERIES

DESCRIPTION

3 108 18	Empty modular battery cabinet
3 108 21	Battery cabinet for 20kVA UPS with 21 94 Ah long life batteries
3 108 22	Battery cabinet for 40-60kVA UPS with 21 94 Ah long life batteries
3 108 23	Battery cabinet for 80kVA UPS with 21 94 Ah long life batteries
3 108 24	Battery cabinet for 100-120kVA UPS with 21 94 Ah long life batteries
3 108 65	Cover for closing empty battery slots
3 108 66	Cover for closing empty power module slots

ACCESSORIES

DESCRIPTION

3 108 40	6.7kVA power module
3 108 64	Front/rear closing door
3 108 55	Kit of 3x9Ah battery slots
3 108 56	Kit of 3 empty battery slots

CONFIGURATIONS

20

Power: 20 kVA
Uptime (80% of the load): 1h
1 Cabinet
1 Control module
3 Power modules
30 Battery modules
1 Distribution modules



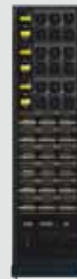
40

Power: 40 kVA
Autonomy (80% of the load): 20 min
1 Cabinet
2 Control modules
6 Power modules
24 Battery modules
1 Distribution modules



60

Power: 60 kVA
Uptime (80% of the load): 6 min
1 Cabinet
3 Control modules
9 Power modules
18 Battery modules
1 Distribution modules



80

Power: 80 kVA
Autonomy (80% of the load): 12 min
2 Cabinets
3 Control modules
1 Power expansion module
12 Power modules
36 Battery modules
1 Distribution modules



100

Power: 100 kVA
Autonomy (80% of the load): 10 min
2 Cabinets
3 Control modules
2 Power expansion modules
15 Power modules
36 Battery modules
1 Distribution modules



120

Power: 120 kVA
Autonomy (80% of the load): 6 min
2 Cabinets
3 Control modules
3 Power expansion modules
18 Power modules
36 Battery modules
1 Distribution modules



NOTE: autonomy values, expressed in minutes, are measured during optimal operating conditions.

ARCHIMOD

Modular three-phase UPS with double conversion VFI

Idem	3 104 51 3 104 52	3 104 53	3 104 54	3 104 55	3 104 56	3 104 57
General features						
Nominal Power (kVA)	20	40	60	80	100	120
Active power (kW)	18	36	54	72	90	108
Module Power (kVA)	6.7 for the Power Module (20kVA with 3 Modules), power factor 0.9					
Technology	On-Line Double Conversion VFI-SS-111					
System	Modular, expandable and redundant UPS system in just one 19" rack cabinet					
Hot Swap capacity	Possibility of replacing the power modules and/or battery without turning off the UPS					
Input features						
Input voltage	230V 1F+N, 400V 3F+N		400V 3F+N			
Input frequency	50-60 Hz $\pm 2\%$ Autosensing					
Input Voltage Range	230V +15%/-20% 1F 400V +15%/-20% 3F		400V +15%/-20% 3F			
THD Input Current	< 3%					
Compatibility with Power-Supply Units	Configurable in order to achieve synchronism between input and output frequencies, even for wider frequency ranges, $\pm 14\%$					
Input Power Factor	> 0,99					
Output features						
Output voltage	230V 1F, 400V 3F		400V 3F			
Performance at Full Load	95%					
Nominal output frequency	50/60 Hz ± 0.1					
Crest Factor	3,5:1					
Output Voltage Tolerance	$\pm 1\%$					
Allowed Overload	10 minutes at 125% and 1 minute at 150%					
Performance in Eco Mode	99%					
Bypass	Automatic and maintenance bypass					
Batteries						
Battery Module	The battery modules are designed to easily be fitted inside the cabinet. No particular operation is necessary to connect them					
Battery Series Type/Voltage	VRLA - AGM / 252 Vdc					
Uptime	Configurable and expandable both internally and with additional battery cabinets					
Battery Charge	Smart Charge technology. 3-stage advanced cycle					
Configuration and management						
Display and Signals	4 lines/20 characteristics, 4 buttons for menu navigation, multi-colour LED status indicator					
Communication Ports	2 RS232 serial ports, 1 Logical gate, 5 ports with dry contacts, 2 slots for SNMP interfaces (optional)					
Emergency Power Off (EPO)	Yes					
Remote Management	Available					
Physical features						
Dimensions (H x W x D) (mm)	2080 x 570 x 912 (42U)					
Installed Power Modules	3	6	9	12	15	18
Installable Battery Slots	Up to 30	Up to 24	Up to 18	-	-	-
Net Weight (kg)	205	240	276	272	318	364
Environmental conditions						
Operating Temperature/Humidity	0 - 40 °C / 20 - 80% non-condensing					
Degree of protection	IP21					
Maximum Audible Noise at 1 m from the Unit (dBA)	50÷65					
Heat Loss (BTU/h)	2730	5460	8190	10920	13650	16380
Conformity						
Certifications	EN 62040-1, EN 62040-2, EN 62040-3					
Standard Warranty	2-year warranty					
Services						
Installation	Can be performed by the user, modular architecture with "plug and play" power and battery modules for easy installation and configuration					
Maintenance	Can be performed by the user, optional services available from the manufacturer					



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