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TriMOD 15 kW

Three-phase modular UPS system

Cat.No : 3 112 79 – 3 112 80– 3 112 81– 3 112 91– 3 112 92- 3 112 99 - 3 113 01

CONTENT **Page**

1. CHARACTERISTICS

High efficiency UPS online double conversion with PWM Hi-Frequency technology. Passing trough neutral and Modular Architecture with the possibility to have N+X redundancy for internal power module and power cabinet. The nominal power is 15kVA – 15kW.
The system is composed by identical modules (5 kW 1ph PM) connected in parallel. Each PM is a complete 1ph UPS who works in parallel with the others in order to supply the required power. It's possible to reach different power and redundancy levels according to the PM and power cabinet number.

1.1 Specific application

Ideal solution for IT and Data Centre applications

2. RANGE

Power cabinet dual input WITH batteries and WITH power modules

Cat. Nos	No. of batt. drawers	No. of PM	No. of phases	No of control	Cabinet type
3 112 79	8	3x 5kVA	Multi In/Out	1	A
3 112 80	12	3x 5kVA	Multi In/Out	1	A
3 112 81	16	3x 5kVA	Multi In/Out	1	B

Power cabinet dual input WITHOUT batteries and WITH power modules

Cat. Nos	No. of installable batt drawers	No. of PM	No. of phases	No of control	Cabinet type
3 112 91	12	3x 5kVA	Multi In/Out	1	A
3 112 92	16	3x 5kVA	Multi In/Out	1	B

Power cabinet dual input WITHOUT batteries and WITHOUT power modules

Cat. Nos	No. of installable batt drawers	No. of installable PM	No. of phases	No of control	Cabinet type
3 112 99	12	3x 5kW	Multi In/Out	1	A
3 113 01	16	3x 5kW	Multi In/Out	1	B

3. TECHNICAL DATA

3.1 General characteristics

UPS Topology	On line double conversion VFI SS 11
Architecture of the UPS	Modular, scalable, redundant based on single phase Power Modules
In/Out phase Configuration	1-1 / 3-3 / 3-1 / 1-3
Neutral	Neutral Passing through
Output wave form on mains run	Sinusoidal
Output wave form on battery run	Sinusoidal
Bypass type	Static, electro-mechanic and maintenance bypass
Transfer time	Zero

3.2 Input

Nominal voltage [V]	380, 400, 415 3F+N+PE (or 220, 230, 240 1F+N+PE)
Voltage range[%]	-20 +15
Frequency [Hz]	50/60 (autosensing)
THDIin [%]	<3.5
Power Factor	>0.99

3. TECHNICAL DATA (continued)

3.3 Output

Nominal voltage [V]	380, 400, 415 3F+N+PE (or 220, 230, 240 1F+N+PE)
Nominal power	15 kVA
Active power	15 kW
Efficiency [%]	96.5
Voltage variation (static)	± 1%
Voltage variation (dynamic 0-100%; 100-0%)	± 1%
THDv on nominal power (linear load) [%]	<1
THDv on nominal power (not linear load P.F.=1)	
Frequency [Hz]	50/60
Frequency tolerance	Synchronized with input frequency adjustable range from +/- 0.5% to +/- 7%
Current Crest Factor	3:1
Overload capability: 10 min 60 sec	 115% load rate with no bypass intervention 135% load rate with no bypass intervention

3.4 Battery

Type	Lead Acid, sealed, free maintenance VRLA
Unit Capacity	Depending on backup time
Nominal UPS Battery Voltage [Vdc]	240 DC
Battery charger type	PWM hi efficiency, one in each power module
Charging Cycle	Smart Charge technology 3-step advanced cycle
Max Charging Current [A]	2.5 each power module

3.5 Enviromental specs

Noise level @ 1m [dBA]	58-62
Working temperature range [°C]	from 0°C to +40°C
Stock temperature range	from -25°C to +55°C (excluded batteries)
Humidity range [%]	10-75 not condensing
Protection degree	IP20

3.6 Mechanical characteristics

Net Weight without batteries with PM [kg]	105~117
Dimensions [WxHxDmm]	414 x 1370/1650 x 628 (cab A/B)
Colour	RAL9003, RAL9011
Technology rectifier/booster/ inverter	IGBT
Communication Interface	1xRS232, 1xslot SNMP, 1xUSB (service), 1xUSB host port

4. USER INTERFACE

TriMOD is equipped with an innovative 10" touch screen user-friendly graphic user interface.

The display is housed in a retractable tray and is capable of reading real-time data regarding working conditions, efficiency, consumption, load variations, as well as input / output power, current, voltage, etc.

Input	Current	RMS value Peak value Crest factor
	Voltage	Ph-N RMS value Ph-Ph RMS value Bypass line voltage
	Power	Nominal (VA) Active (W) Power factor Frequency
Output	Output current	RMS value Peak value Crest factor
	Voltage	Ph-N RMS value Ph-Ph RMS value
	Power	Nominal (VA) Active (W) Power factor Frequency
Batteries	Voltage Capacity Current History data Residual capacity Charging status	
Miscellaneous	Internal Temperature Fan Speed HV DC BUS voltage	
Data Log.	By-pass intervention Overheats Overloads Battery interventions Total discharge Events Alarms	

The UPS allows also the following settings by display:

Output	Voltage Frequency
Input	Enable freq. synchronizing
By-pass	Enabling Forced ECO Mode batteries

5. STANDARDS AND REGULATIONS

The UPS TriMOD has the CE Mark accordingly with the EU Directives 2006 95 2004 108 and it comply with following standards
- EN 62040-1: General rules for electric safety
- EN 62040-2: Electromagnetic compatibility and immunity (EMC)
- EN 62040-3: Performances and testing rules

RoHS :
Compliance with the 2011/65/EU Directive (RoHS), as modified by the 2015/863/EU Delegated Directive, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

REACH :
The substances identified as SVHC (Substances of Very High Concern) according to the REACH Regulation (1907/2006), if present in the products at a concentration above 0.1% weight by weight, are declared inside the European SCIP database. At the date of publication of this document none of the substance listed in the annex XIV is found in this product.

Batteries
The batteries included in this product comply with the requirements set out in European Regulation 2023/1542, according to the application timing indicated therein.

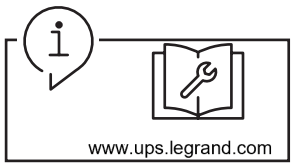
WEEE
WEEE Directive (2012/19/EU): the sale of this product includes a contribution to the appointed environmental bodies of each European country in charge of handling, at the end of their life, the products falling within the scope of the EU Directive on Electrical and Electronic Equipment Waste

Packaging :
Design and manufacture of packaging compliant with European Directive 94/62/CE.

The UPS TriMOD is CE marked in accordance with EU directives 2006 95 2004 108

CE

6. OTHER INFORMATIONS



Installation and maintenance manual: mounting informations and maintenance guide available on e-catalogue

For further technical information, please contact Legrand technical support.
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For different conditions of use of the product, inside electrical equipment or in any different installation context, refer to the regulatory requirements of the equipment, local regulations and design specifications of the system.

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TriMOD 20 kW

Three-phase modular UPS system

Cat.No : 3 112 82 - 3 112 83 - 3 112 84 - 3 112 93 - 3 112 94 - 3 112 99 - 3 113 00 - 3 113 01 - 3 113 08

CONTENT **Page**

1. CHARACTERISTICS

High efficiency UPS online double conversion with PWM Hi-Frequency technology. Passing trough neutral and Modular Architecture with the possibility to have N+X redundancy for internal power module and power cabinet. The nominal power is 20kVA – 20kW.
The system is composed by identical modules (3.4, 5 or 6.7 kW 1ph PM) connected in parallel. Each PM is a complete 1ph UPS who works in parallel with the others in order to supply the required power. It's possible to reach different power and redundancy levels according to the PM and power cabinet number.

1.1 Specific application

Ideal solution for IT and Data Centre applications

2. RANGE

Power cabinet dual input WITH batteries and WITH power modules

Cat. Nos	No. of batt. drawers	No. of PM	No. of phases	No of control	Cabinet type
3 112 82	8	3x 6.7kVA	Multi In/Out	1	A
3 112 83	12	3x 6.7kVA	Multi In/Out	1	A
3 112 84	16	3x 6.7kVA	Multi In/Out	1	B

Power cabinet dual input WITHOUT batteries and WITH power modules

Cat. Nos	No. of installable batt drawers	No. of PM	No. of phases	No of control	Cabinet type
3 112 93	12	3x 6.7kVA	Multi In/Out	1	A
3 112 94	16	3x 6.7kVA	Multi In/Out	1	B

Power cabinet dual input WITHOUT batteries and WITHOUT power modules

Cat. Nos	No. of installable batt drawers	No. of installable PM	No. of phases	No of control	Cabinet type
3 112 99	12	3x 6.7kVA	Multi In/Out	1	A
3 113 00	12	6x 3.4kVA	Multi In/Out	1	B
3 113 01	16	3x 6.7kVA	Multi In/Out	1	B
3 113 08	-	6x 3.4kVA	Multi In/Out	2	A

3. TECHNICAL DATA

3.1 General characteristics

UPS Topology	On line double conversion VFI SS 11
Architecture of the UPS	Modular, scalable, redundant based on single phase Power Modules
In/Out phase Configuration	1-1 / 3-3 / 3-1 / 1-3
Neutral	Neutral Passing through
Output wave form on mains run	Sinusoidal
Output wave form on battery run	Sinusoidal
Bypass type	Static, electro-mechanic and maintenance bypass
Transfer time	Zero

3.2 Input

Nominal voltage [V]	380, 400, 415 3F+N+PE (or 220, 230, 240 1F+N+PE)
Voltage range[%]	-20 +15
Frequency [Hz]	50/60 (autosensing)
THDIin [%]	<3.5
Power Factor	>0.99

3. TECHNICAL DATA (continued)

3.3 Output

Nominal voltage [V]	380, 400, 415 3F+N+PE (or 220, 230, 240 1F+N+PE)
Nominal power	20 kVA
Active power	20 kW
Efficiency [%]	96.5
Voltage variation (static)	± 1%
Voltage variation (dynamic 0-100%; 100-0%)	± 1%
THDv on nominal power (linear load) [%]	<1
THDv on nominal power (not linear load P.F.=1)	
Frequency [Hz]	50/60
Frequency tolerance	Synchronized with input frequency adjustable range from +/- 0.5% to +/- 7%
Current Crest Factor	3:1
Overload capability: 10 min 60 sec	 112.5% load rate with no bypass intervention 135% load rate with no bypass intervention

3.4 Battery

Type	Lead Acid, sealed, free maintenance VRLA
Unit Capacity	Depending on backup time
Nominal UPS Battery Voltage [Vdc]	240 DC
Battery charger type	PWM hi efficiency, one in each power module
Charging Cycle	Smart Charge technology 3-step advanced cycle
Max Charging Current [A]	2.5 each power module

3.5 Enviromental specs

Noise level @ 1m [dBA]	58-62
Working temperature range [°C]	from 0°C to +40°C
Stock temperature range	from -25°C to +55°C (excluded batteries)
Humidity range [%]	10-75 not condensing
Protection degree	IP20

3.6 Mechanical characteristics

Net Weight without batteries with PM [kg]	105~117
Dimensions [WxHxDmm]	414 x 1370/1650 x 628 (cab A/B)
Colour	RAL9003, RAL9011
Technology rectifier/booster/ inverter	IGBT
Communication Interface	1xRS232, 1xslot SNMP, 1xUSB (service), 1xUSB host port

4. USER INTERFACE

TriMOD is equipped with an innovative 5" touch screen display with multicolor LED status bar, provides an user-friendly interface for monitoring the UPS in real time.

Historical alarm logs and messages facilitate maintenance and resolution of problems. The predictive diagnostics anticipates potential faults, ensuring maximum business continuity.

Input	Current	RMS value Peak value Crest factor
	Voltage	Ph-N RMS value Ph-Ph RMS value Bypass line voltage
	Power	Nominal (VA) Active (W) Power factor Frequency
Output	Output current	RMS value Peak value Crest factor
	Voltage	Ph-N RMS value Ph-Ph RMS value
	Power	Nominal (VA) Active (W) Power factor Frequency
Batteries	Voltage Capacity Current History data Residual capacity Charging status	
Miscellaneous	Internal Temperature Fan Speed HV DC BUS voltage	
Data Log.	By-pass intervention Overheats Overloads Battery interventions Total discharge Events Alarms	

The UPS allows also the following settings by display:

Output	Voltage Frequency
Input	Enable freq. synchronizing
By-pass	Enabling Forced ECO Mode batteries

5. STANDARDS AND REGULATIONS

The UPS TriMOD has the CE Mark accordingly with the EU Directives 2006 95 2004 108 and it comply with following standards
- EN 62040-1: General rules for electric safety
- EN 62040-2: Electromagnetic compatibility and immunity (EMC)
- EN 62040-3: Performances and testing rules

RoHS :
Compliance with the 2011/65/EU Directive (RoHS), as modified by the 2015/863/EU Delegated Directive, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

REACH :
The substances identified as SVHC (Substances of Very High Concern) according to the REACH Regulation (1907/2006), if present in the products at a concentration above 0.1% weight by weight, are declared inside the European SCIP database. At the date of publication of this document none of the substance listed in the annex XIV is found in this product.

Batteries
The batteries included in this product comply with the requirements set out in European Regulation 2023/1542, according to the application timing indicated therein.

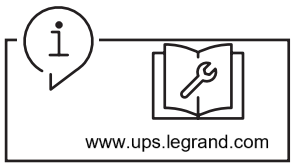
WEEE
WEEE Directive (2012/19/EU): the sale of this product includes a contribution to the appointed environmental bodies of each European country in charge of handling, at the end of their life, the products falling within the scope of the EU Directive on Electrical and Electronic Equipment Waste

Packaging :
Design and manufacture of packaging compliant with European Directive 94/62/CE.

The UPS TriMOD is CE marked in accordance with EU directives 2006 95 2004 108

CE

6. OTHER INFORMATIONS



Installation and maintenance manual: mounting informations and maintenance guide available on e-catalogue

For further technical information, please contact Legrand technical support.
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TriMOD 20 kW

Three-phase modular UPS system

Cat.No : 3 112 82 - 3 112 83 - 3 112 84 - 3 112 93 - 3 112 94 - 3 112 99 - 3 113 00 - 3 113 01 - 3 113 08

CONTENT **Page**

1. CHARACTERISTICS

High efficiency UPS online double conversion with PWM Hi-Frequency technology. Passing trough neutral and Modular Architecture with the possibility to have N+X redundancy for internal power module and power cabinet. The nominal power is 20kVA – 20kW.
The system is composed by identical modules (3.4, 5 or 6.7 kW 1ph PM) connected in parallel. Each PM is a complete 1ph UPS who works in parallel with the others in order to supply the required power. It's possible to reach different power and redundancy levels according to the PM and power cabinet number.

1.1 Specific application

Ideal solution for IT and Data Centre applications

2. RANGE

Power cabinet dual input WITH batteries and WITH power modules

Cat. Nos	No. of batt. drawers	No. of PM	No. of phases	No of control	Cabinet type
3 112 82	8	3x 6.7kVA	Multi In/Out	1	A
3 112 83	12	3x 6.7kVA	Multi In/Out	1	A
3 112 84	16	3x 6.7kVA	Multi In/Out	1	B

Power cabinet dual input WITHOUT batteries and WITH power modules

Cat. Nos	No. of installable batt drawers	No. of PM	No. of phases	No of control	Cabinet type
3 112 93	12	3x 6.7kVA	Multi In/Out	1	A
3 112 94	16	3x 6.7kVA	Multi In/Out	1	B

Power cabinet dual input WITHOUT batteries and WITHOUT power modules

Cat. Nos	No. of installable batt drawers	No. of installable PM	No. of phases	No of control	Cabinet type
3 112 99	12	3x 6.7kVA	Multi In/Out	1	A
3 113 00	12	6x 3.4kVA	Multi In/Out	1	B
3 113 01	16	3x 6.7kVA	Multi In/Out	1	B
3 113 08	-	6x 3.4kVA	Multi In/Out	2	A

3. TECHNICAL DATA

3.1 General characteristics

UPS Topology	On line double conversion VFI SS 11
Architecture of the UPS	Modular, scalable, redundant based on single phase Power Modules
In/Out phase Configuration	1-1 / 3-3 / 3-1 / 1-3
Neutral	Neutral Passing through
Output wave form on mains run	Sinusoidal
Output wave form on battery run	Sinusoidal
Bypass type	Static, electro-mechanic and maintenance bypass
Transfer time	Zero

3.2 Input

Nominal voltage [V]	380, 400, 415 3F+N+PE (or 220, 230, 240 1F+N+PE)
Voltage range[%]	-20 +15
Frequency [Hz]	50/60 (autosensing)
THDIin [%]	<3.5
Power Factor	>0.99

3. TECHNICAL DATA (continued)

3.3 Output

Nominal voltage [V]	380, 400, 415 3F+N+PE (or 220, 230, 240 1F+N+PE)
Nominal power	20 kVA
Active power	20 kW
Efficiency [%]	96.5
Voltage variation (static)	± 1%
Voltage variation (dynamic 0-100%; 100-0%)	± 1%
THDv on nominal power (linear load) [%]	<1
THDv on nominal power (not linear load P.F.=1)	
Frequency [Hz]	50/60
Frequency tolerance	Synchronized with input frequency adjustable range from +/- 0.5% to +/- 7%
Current Crest Factor	3:1
Overload capability: 10 min 60 sec	 112.5% load rate with no bypass intervention 135% load rate with no bypass intervention

3.4 Battery

Type	Lead Acid, sealed, free maintenance VRLA
Unit Capacity	Depending on backup time
Nominal UPS Battery Voltage [Vdc]	240 DC
Battery charger type	PWM hi efficiency, one in each power module
Charging Cycle	Smart Charge technology 3-step advanced cycle
Max Charging Current [A]	2.5 each power module

3.5 Enviromental specs

Noise level @ 1m [dBA]	58-62
Working temperature range [°C]	from 0°C to +40°C
Stock temperature range	from -25°C to +55°C (excluded batteries)
Humidity range [%]	10-75 not condensing
Protection degree	IP20

3.6 Mechanical characteristics

Net Weight without batteries with PM [kg]	105~117
Dimensions [WxHxDmm]	414 x 1370/1650 x 628 (cab A/B)
Colour	RAL9003, RAL9011
Technology rectifier/booster/ inverter	IGBT
Communication Interface	1xRS232, 1xslot SNMP, 1xUSB (service), 1xUSB host port

4. USER INTERFACE

TriMOD is equipped with an innovative 5" touch screen display with multicolor LED status bar, provides an user-friendly interface for monitoring the UPS in real time.

Historical alarm logs and messages facilitate maintenance and resolution of problems. The predictive diagnostics anticipates potential faults, ensuring maximum business continuity.

Input	Current	RMS value Peak value Crest factor
	Voltage	Ph-N RMS value Ph-Ph RMS value Bypass line voltage
	Power	Nominal (VA) Active (W) Power factor Frequency
Output	Output current	RMS value Peak value Crest factor
	Voltage	Ph-N RMS value Ph-Ph RMS value
	Power	Nominal (VA) Active (W) Power factor Frequency
Batteries	Voltage Capacity Current History data Residual capacity Charging status	
Miscellaneous	Internal Temperature Fan Speed HV DC BUS voltage	
Data Log.	By-pass intervention Overheats Overloads Battery interventions Total discharge Events Alarms	

The UPS allows also the following settings by display:

Output	Voltage Frequency
Input	Enable freq. synchronizing
By-pass	Enabling Forced ECO Mode batteries

5. STANDARDS AND REGULATIONS

The UPS TriMOD has the CE Mark accordingly with the EU Directives 2006 95 2004 108 and it comply with following standards
- EN 62040-1: General rules for electric safety
- EN 62040-2: Electromagnetic compatibility and immunity (EMC)
- EN 62040-3: Performances and testing rules

RoHS :
Compliance with the 2011/65/EU Directive (RoHS), as modified by the 2015/863/EU Delegated Directive, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

REACH :
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Batteries
The batteries included in this product comply with the requirements set out in European Regulation 2023/1542, according to the application timing indicated therein.

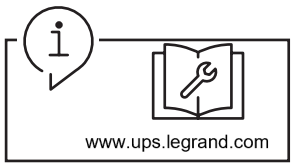
WEEE
WEEE Directive (2012/19/EU): the sale of this product includes a contribution to the appointed environmental bodies of each European country in charge of handling, at the end of their life, the products falling within the scope of the EU Directive on Electrical and Electronic Equipment Waste

Packaging :
Design and manufacture of packaging compliant with European Directive 94/62/CE.

The UPS TriMOD is CE marked in accordance with EU directives 2006 95 2004 108

CE

6. OTHER INFORMATIONS



Installation and maintenance manual: mounting informations and maintenance guide available on e-catalogue

For further technical information, please contact Legrand technical support.
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TriMOD 30 kW

Three-phase modular UPS system

Cat.No : 3 112 85 – 3 112 95 – 3 112 96 - 3 113 02 - 3 113 03 - 311304 - 3 113 08 - 3 113 09

CONTENT **Page**

1. CHARACTERISTICS

High efficiency UPS online double conversion with PWM Hi-Frequency technology. Passing trough neutral and Modular Architecture with the possibility to have N+X redundancy for internal power module and power cabinet. The nominal power is 30kVA – 30kW.
The system is composed by identical modules (3.4, 5 or 6.7 kW 1ph PM) connected in parallel. Each PM is a complete 1ph UPS who works in parallel with the others in order to supply the required power. It's possible to reach different power and redundancy levels according to the PM and power cabinet number.

■ 1.1 Specific application

Ideal solution for IT and Data Centre applications

2. RANGE

Power cabinet dual input WITH batteries and WITH power modules

Cat. Nos	No. of batt. drawers	No. of PM	No. of phases	No of control	Cabinet type
3 112 85	12	6x 5kVA	3/3	1	B

Power cabinet dual input WITHOUT batteries and WITH power modules

Cat. Nos	No. of installable batt drawers	No. of PM	No. of phases	No of control	Cabinet type
3 112 95	-	6x 5kVA	3/3	1	A
3 112 96	12	6x 5kVA	3/3	1	B

Power cabinet dual input WITHOUT batteries and WITHOUT power modules

Cat. Nos	No. of installable batt drawers	No. of installable PM	No. of phases	No of control	Cabinet type
3 113 02	-	6x 5kVA	3/3	1	A
3 113 03	-	6x 5kVA	Multi In/Out	1	A
3 113 04	12	6x 5kVA	3/3	1	B
3 113 08	-	6x 5kVA	Multi In/Out	2	A
3 113 09	12	6x 5kVA	3/3	2	B

3. TECHNICAL DATA

■ 3.1 General characteristics

UPS Topology	On line double conversion VFI SS 11
Architecture of the UPS	Modular, scalable, redundant based on single phase Power Modules
In/Out phase Configuration	3-3*
Neutral	Neutral Passing through
Output wave form on mains run	Sinusoidal
Output wave form on battery run	Sinusoidal
Bypass type	Static, electro-mechanic and maintenance bypass
Transfer time	Zero

■ 3.2 Input

Nominal voltage [V]	380, 400, 415 3F+N+PE*
Voltage range[%]	-20 +15
Frequency [Hz]	50/60 (autosensing)
THDIin [%]	<3.5
Power Factor	>0.99

*standard configuration with 3-3 (multi in/out setting available upon request)

3. TECHNICAL DATA (continued)

3.3 Output

Nominal voltage [V]	380, 400, 415 3F+N+PE*
Nominal power	30 kVA
Active power	30 kW
Efficiency [%]	96.5
Voltage variation (static)	± 1%
Voltage variation (dynamic 0-100%; 100-0%)	± 1%
THDv on nominal power (linear load) [%]	<1
THDv on nominal power (not linear load P.F.=1)	
Frequency [Hz]	50/60
Frequency tolerance	Synchronized with input frequency adjustable range from +/- 0.5% to +/- 7%
Current Crest Factor	3:1
Overload capability: 10 min 60 sec	 112.5% load rate with no bypass intervention 135% load rate with no bypass intervention

3.4 Battery

Type	Lead Acid, sealed, free maintenance VRLA
Unit Capacity	Depending on backup time
Nominal UPS Battery Voltage [Vdc]	240 DC
Battery charger type	PWM hi efficiency, one in each power module
Charging Cycle	Smart Charge technology 3-step advanced cycle
Max Charging Current [A]	2.5 each power module

3.5 Enviromental specs

Noise level @ 1m [dBA]	58-62
Working temperature range [°C]	from 0°C to +40°C
Stock temperature range	from -25°C to +55°C (excluded batteries)
Humidity range [%]	10-75 not condensing
Protection degree	IP20

3.6 Mechanical characteristics

Net Weight without batteries with PM [kg]	124 ~142
Dimensions [WxHxDmm]	414 x 1370/1650 x 628 (cab A/B)
Colour	RAL9003, RAL9011
Technology rectifier/booster/ inverter	IGBT
Communication Interface	1xRS232, 1xslot SNMP, 1xUSB (service), 1xUSB host port

4. USER INTERFACE

TriMOD is equipped with an innovative 5" touch screen display with multicolor LED status bar, provides an user-friendly interface for monitoring the UPS in real time.

Historical alarm logs and messages facilitate maintenance and resolution of problems. The predictive diagnostics anticipates potential faults, ensuring maximum business continuity.

Input	Current	RMS value Peak value Crest factor
	Voltage	Ph-N RMS value Ph-Ph RMS value Bypass line voltage
	Power	Nominal (VA) Active (W) Power factor Frequency
Output	Output current	RMS value Peak value Crest factor
	Voltage	Ph-N RMS value Ph-Ph RMS value
	Power	Nominal (VA) Active (W) Power factor Frequency
Batteries	Voltage Capacity Current History data Residual capacity Charging status	
Miscellaneous	Internal Temperature Fan Speed HV DC BUS voltage	
Data Log.	By-pass intervention Overheats Overloads Battery interventions Total discharge Events Alarms	

The UPS allows also the following settings by display:

Output	Voltage Frequency
Input	Enable freq. synchronizing
By-pass	Enabling Forced ECO Mode batteries

5. STANDARDS AND REGULATIONS

The UPS TriMOD has the CE Mark accordingly with the EU Directives 2006 95 2004 108 and it comply with following standards
- EN 62040-1: General rules for electric safety
- EN 62040-2: Electromagnetic compatibility and immunity (EMC)
- EN 62040-3: Performances and testing rules

RoHS :
Compliance with the 2011/65/EU Directive (RoHS), as modified by the 2015/863/EU Delegated Directive, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

REACH :
The substances identified as SVHC (Substances of Very High Concern) according to the REACH Regulation (1907/2006), if present in the products at a concentration above 0.1% weight by weight, are declared inside the European SCIP database. At the date of publication of this document none of the substance listed in the annex XIV is found in this product.

Batteries
The batteries included in this product comply with the requirements set out in European Regulation 2023/1542, according to the application timing indicated therein.

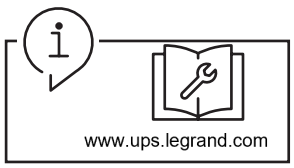
WEEE
WEEE Directive (2012/19/EU): the sale of this product includes a contribution to the appointed environmental bodies of each European country in charge of handling, at the end of their life, the products falling within the scope of the EU Directive on Electrical and Electronic Equipment Waste

Packaging :
Design and manufacture of packaging compliant with European Directive 94/62/CE.

The UPS TriMOD is CE marked in accordance with EU directives 2006 95 2004 108

CE

6. OTHER INFORMATIONS



Installation and maintenance manual: mounting informations and maintenance guide available on e-catalogue

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TriMOD 40 kW

Three-phase modular UPS system

Cat.No : 3 112 86 - 3 113 05 - 3 113 08 - 3 113 10

CONTENT **Page**

1. CHARACTERISTICS

High efficiency UPS online double conversion with PWM Hi-Frequency technology. Passing trough neutral and Modular Architecture with the possibility to have N+X redundancy for internal power module and power cabinet. The nominal power is 40kVA – 40kW.
The system is composed by identical modules (3.4, 5 or 6.7 kW 1ph PM) connected in parallel. Each PM is a complete 1ph UPS who works in parallel with the others in order to supply the required power. It's possible to reach different power and redundancy levels according to the PM and power cabinet number.

1.1 Specific application

Ideal solution for IT and Data Centre applications

2. RANGE

Power cabinet dual input WITHOUT batteries and WITH power modules

Cat. Nos	No. of installable batt drawers	No. of PM	No. of phases	No of control	Cabinet type
3 112 86	-	6x 6.7kVA	3/3	1	A

Power cabinet dual input WITHOUT batteries and WITHOUT power modules

Cat. Nos	No. of installable batt drawers	No. of installable PM	No. of phases	No of control	Cabinet type
3 113 05	-	6x 6.7kVA	3/3	1	A
3 113 08	-	6x 6.7kVA	Multi In/Out	2	A
3 113 10	-	6x 6.7kVA	3/3	2	A

3. TECHNICAL DATA

3.1 General characteristics

UPS Topology	On line double conversion VFI SS 11
Architecture of the UPS	Modular, scalable, redundant based on single phase Power Modules
In/Out phase Configuration	3-3*
Neutral	Neutral Passing through
Output wave form on mains run	Sinusoidal
Output wave form on battery run	Sinusoidal
Bypass type	Static, electro-mechanic and maintenance bypass
Transfer time	Zero

3.2 Input

Nominal voltage [V]	380, 400, 415 3F+N+PE*
Voltage range[%]	-20 +15
Frequency [Hz]	50/60 (autosensing)
THDIin [%]	<3.5
Power Factor	>0.99

3.3 Output

Nominal voltage [V]	380, 400, 415 3F+N+PE*
Nominal power	40 kVA
Active power	40 kW
Efficiency [%]	96.5
Voltage variation (static)	± 1%
Voltage variation (dynamic 0-100%; 100-0%)	± 1%
THDv on nominal power (linear load) [%]	<1
THDv on nominal power (not linear load P.F.=1)	
Frequency [Hz]	50/60
Frequency tolerance	Synchronized with input frequency adjustable range from +/- 0.5% to +/- 7%
Current Crest Factor	3:1
Overload capability: 10 min 60 sec	 112.5% load rate with no bypass intervention 135% load rate with no bypass intervention

*standard configuration with 3-3 (multi in/out setting available upon request)

3. TECHNICAL DATA (continued)

3.4 Battery

Type	Lead Acid, sealed, free maintenance VRLA
Unit Capacity	Depending on backup time
Nominal UPS Battery Voltage [Vdc]	240 DC
Battery charger type	PWM hi efficiency, one in each power module
Charging Cycle	Smart Charge technology 3-step advanced cycle
Max Charging Current [A]	2.5 each power module

3.5 Enviromental specs

Noise level @ 1m [dBA]	58-62
Working temperature range [°C]	from 0°C to +40°C
Stock temperature range	from -25°C to +55°C (excluded batteries)
Humidity range [%]	10-75 not condensing
Protection degree	IP20

3.6 Mechanical characteristics

Net Weight without batteries with PM [kg]	124
Dimensions [WxHxDmm]	414 x 1370/1650 x 628 (cab A/B)
Colour	RAL9003, RAL9011
Technology rectifier/booster/ inverter	IGBT
Communication Interface	1 x RS232 port for service, 1x 5 Dry contacts 1x logic level port, N.2 SNMP slot

4. USER INTERFACE

TriMOD is equipped with an innovative 5" touch screen display with multicolor LED status bar, provides an user-friendly interface for monitoring the UPS in real time.

Historical alarm logs and messages facilitate maintenance and resolution of problems. The predictive diagnostics anticipates potential faults, ensuring maximum business continuity.

Input	Current	RMS value Peak value Crest factor
	Voltage	Ph-N RMS value Ph-Ph RMS value Bypass line voltage
	Power	Nominal (VA) Active (W) Power factor Frequency
Output	Output current	RMS value Peak value Crest factor
	Voltage	Ph-N RMS value Ph-Ph RMS value
	Power	Nominal (VA) Active (W) Power factor Frequency
Batteries	Voltage Capacity Current History data Residual capacity Charging status	
Miscellaneous	Internal Temperature Fan Speed HV DC BUS voltage	
Data Log.	By-pass intervention Overheats Overloads Battery interventions Total discharge Events Alarms	

The UPS allows also the following settings by display:

Output	Voltage Frequency
Input	Enable freq. synchronizing
By-pass	Enabling Forced ECO Mode batteries

5. STANDARDS AND REGULATIONS

The UPS TriMOD has the CE Mark accordingly with the EU Directives 2006 95 2004 108 and it comply with following standards
- EN 62040-1: General rules for electric safety
- EN 62040-2: Electromagnetic compatibility and immunity (EMC)
- EN 62040-3: Performances and testing rules

RoHS :
Compliance with the 2011/65/EU Directive (RoHS), as modified by the 2015/863/EU Delegated Directive, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

REACH :
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Batteries
The batteries included in this product comply with the requirements set out in European Regulation 2023/1542, according to the application timing indicated therein.

WEEE
WEEE Directive (2012/19/EU): the sale of this product includes a contribution to the appointed environmental bodies of each European country in charge of handling, at the end of their life, the products falling within the scope of the EU Directive on Electrical and Electronic Equipment Waste

Packaging :
Design and manufacture of packaging compliant with European Directive 94/62/CE.

The UPS TriMOD is CE marked in accordance with EU directives 2006 95 2004 108

CE

6. OTHER INFORMATIONS

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TriMOD 60 kW

Three-phase modular UPS system

Cat.No : 3 112 87 - 3 113 06 - 3 113 11

CONTENT **Page**

1. CHARACTERISTICS

High efficiency UPS online double conversion with PWM Hi-Frequency technology. Passing trough neutral and Modular Architecture with the possibility to have N+X redundancy for internal power module and power cabinet. The nominal power is 60kVA – 60kW.
The system is composed by identical modules (3.4, 5 or 6.7 kW 1ph PM) connected in parallel. Each PM is a complete 1ph UPS who works in parallel with the others in order to supply the required power. It's possible to reach different power and redundancy levels according to the PM and power cabinet number.

1.1 Specific application

Ideal solution for IT and Data Centre applications

2. RANGE

Power cabinet dual input WITHOUT batteries and WITH power modules

Cat. Nos	No. of installable batt drawers	No. of PM	No. of phases	No of control	Cabinet type
3 112 87	-	9x 6.7kVA	3/3	1	A

Power cabinet dual input WITHOUT batteries and WITHOUT power modules

Cat. Nos	No. of installable batt drawers	No. of installable PM	No. of phases	No of control	Cabinet type
3 113 06	-	9x 6.7kVA	3/3	1	A
3 113 11	-	9x 6.7kVA	3/3	3	A

3. TECHNICAL DATA

3.1 General characteristics

UPS Topology	On line double conversion VFI SS 11
Architecture of the UPS	Modular, scalable, redundant based on single phase Power Modules
In/Out phase Configuration	3-3
Neutral	Neutral Passing through
Output wave form on mains run	Sinusoidal
Output wave form on battery run	Sinusoidal
Bypass type	Static, electro-mechanic and maintenance bypass
Transfer time	Zero

3.2 Input

Nominal voltage [V]	380, 400, 415 3F+N+PE
Voltage range[%]	-20 +15
Frequency [Hz]	50/60 (autosensing)
THDIin [%]	<3.5
Power Factor	>0.99

3.3 Output

Nominal voltage [V]	380, 400, 415 3F+N+PE
Nominal power	60 kVA
Active power	60 kW
Efficiency [%]	96.5
Voltage variation (static)	± 1%
Voltage variation (dynamic 0-100%; 100-0%)	± 1%
THDv on nominal power (linear load) [%]	<1
THDv on nominal power (not linear load P.F.=1)	
Frequency [Hz]	50/60
Frequency tolerance	Synchronized with input frequency adjustable range from +/- 0.5% to +/- 7%
Current Crest Factor	3:1
Overload capability: 10 min 60 sec	 112.5% load rate with no bypass intervention 135% load rate with no bypass intervention

3. TECHNICAL DATA (continued)

3.4 Battery

Type	Lead Acid, sealed, free maintenance VRLA
Unit Capacity	Depending on backup time
Nominal UPS Battery Voltage [Vdc]	240 DC
Battery charger type	PWM hi efficiency, one in each power module
Charging Cycle	Smart Charge technology 3-step advanced cycle
Max Charging Current [A]	2.5 each power module

3.5 Enviromental specs

Noise level @ 1m [dBA]	154
Working temperature range [°C]	from 0°C to +40°C
Stock temperature range	from -25°C to +55°C (excluded batteries)
Humidity range [%]	10-75 not condensing
Protection degree	IP20

3.6 Mechanical characteristics

Net Weight without batteries with PM [kg]	154
Dimensions [WxHxDmm]	414 x 1370/1650 x 628 (cab A/B)
Colour	RAL9003, RAL9011
Technology rectifier/booster/ inverter	IGBT
Communication Interface	1xRS232, 1xslot SNMP, 1xUSB (service), 1xUSB host port

4. USER INTERFACE

TriMOD is equipped with an innovative 5" touch screen display with multicolor LED status bar, provides an user-friendly interface for monitoring the UPS in real time.

Historical alarm logs and messages facilitate maintenance and resolution of problems. The predictive diagnostics anticipates potential faults, ensuring maximum business continuity.

Input	Current	RMS value Peak value Crest factor
	Voltage	Ph-N RMS value Ph-Ph RMS value Bypass line voltage
	Power	Nominal (VA) Active (W) Power factor Frequency
Output	Output current	RMS value Peak value Crest factor
	Voltage	Ph-N RMS value Ph-Ph RMS value
	Power	Nominal (VA) Active (W) Power factor Frequency
Batteries	Voltage Capacity Current History data Residual capacity Charging status	
Miscellaneous	Internal Temperature Fan Speed HV DC BUS voltage	
Data Log.	By-pass intervention Overheats Overloads Battery interventions Total discharge Events Alarms	

The UPS allows also the following settings by display:

Output	Voltage Frequency
Input	Enable freq. synchronizing
By-pass	Enabling Forced ECO Mode batteries

5. STANDARDS AND REGULATIONS

The UPS TriMOD has the CE Mark accordingly with the EU Directives 2006 95 2004 108 and it comply with following standards
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Batteries
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WEEE
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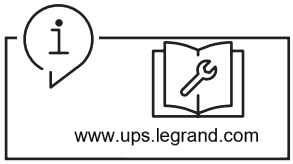
Packaging :
Design and manufacture of packaging compliant with European Directive 94/62/CE.

The UPS TriMOD is CE marked in accordance with EU directives 2006 95 2004 108

CE

6. OTHER INFORMATIONS



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TriMOD 60 kW

Three-phase modular UPS system

Cat.No : 3 112 87 - 3 113 06 - 3 113 11

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Tél. : 33(0)5 55 06 87 87 - Fax : 33(0)5 55 06 88 88
www.legrand.com

TriMOD 80 kW

Three-phase modular UPS system

Cat.No : 3 112 88 - 3 113 07 - 3 113 12

CONTENT **Page**

1. CHARACTERISTICS

High efficiency UPS online double conversion with PWM Hi-Frequency technology. Passing trough neutral and Modular Architecture with the possibility to have N+X redundancy for internal power module and power cabinet. The nominal power is 80kVA – 80kW.
The system is composed by identical modules (3.4, 5 or 6.7 kW 1ph PM) connected in parallel. Each PM is a complete 1ph UPS who works in parallel with the others in order to supply the required power. It's possible to reach different power and redundancy levels according to the PM and power cabinet number.

1.1 Specific application

Ideal solution for IT and Data Centre applications

2. RANGE

Power cabinet dual input WITHOUT batteries and WITH power modules

Cat. Nos	No. of installable batt drawers	No. of PM	No. of phases	No of control	Cabinet type
3 112 88	-	12x 6.7kVA	3/3	1	B

Power cabinet dual input WITHOUT batteries and WITHOUT power modules

Cat. Nos	No. of installable batt drawers	No. of installable PM	No. of phases	No of control	Cabinet type
3 113 07	-	12x 6.7kVA	3/3	1	B
3 113 12	-	12x 6.7kVA	3/3	4	B

3. TECHNICAL DATA

3.1 General characteristics

UPS Topology	On line double conversion VFI SS 11
Architecture of the UPS	Modular, scalable, redundant based on single phase Power Modules
In/Out phase Configuration	3-3
Neutral	Neutral Passing through
Output wave form on mains run	Sinusoidal
Output wave form on battery run	Sinusoidal
Bypass type	Static, electro-mechanic and maintenance bypass
Transfer time	Zero

3.2 Input

Nominal voltage [V]	380, 400, 415 3F+N+PE
Voltage range[%]	-20 +15
Frequency [Hz]	50/60 (autosensing)
THDIin [%]	<3.5
Power Factor	>0.99

3.3 Output

Nominal voltage [V]	380, 400, 415 3F+N+PE
Nominal power	80 kVA
Active power	80 kW
Efficiency [%]	96.5
Voltage variation (static)	± 1%
Voltage variation (dynamic 0-100%; 100-0%)	± 1%
THDv on nominal power (linear load) [%]	<1
THDv on nominal power (not linear load P.F.=1)	
Frequency [Hz]	50/60
Frequency tolerance	Synchronized with input frequency adjustable range from +/- 0.5% to +/- 7%
Current Crest Factor	3:1
Overload capability: 10 min 60 sec	 112.5% load rate with no bypass intervention 135% load rate with no bypass intervention

3. TECHNICAL DATA (continued)

3.4 Battery

Type	Lead Acid, sealed, free maintenance VRLA
Unit Capacity	Depending on backup time
Nominal UPS Battery Voltage [Vdc]	240 DC
Battery charger type	PWM hi efficiency, one in each power module
Charging Cycle	Smart Charge technology 3-step advanced cycle
Max Charging Current [A]	2.5 each power module

3.5 Enviromental specs

Noise level @ 1m [dBA]	197
Working temperature range [°C]	from 0°C to +40°C
Stock temperature range	from -25°C to +55°C (excluded batteries)
Humidity range [%]	10-75 not condensing
Protection degree	IP20

3.6 Mechanical characteristics

Net Weight without batteries with PM [kg]	154
Dimensions [WxHxDmm]	414 x 1370/1650 x 628 (cab A/B)
Colour	RAL9003, RAL9011
Technology rectifier/booster/ inverter	IGBT
Communication Interface	1xRS232, 1xslot SNMP, 1xUSB (service), 1xUSB host port

4. USER INTERFACE

TriMOD is equipped with an innovative 5" touch screen display with multicolor LED status bar, provides an user-friendly interface for monitoring the UPS in real time.

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Input	Current	RMS value Peak value Crest factor
	Voltage	Ph-N RMS value Ph-Ph RMS value Bypass line voltage
	Power	Nominal (VA) Active (W) Power factor Frequency
Output	Output current	RMS value Peak value Crest factor
	Voltage	Ph-N RMS value Ph-Ph RMS value
	Power	Nominal (VA) Active (W) Power factor Frequency
Batteries	Voltage Capacity Current History data Residual capacity Charging status	
Miscellaneous	Internal Temperature Fan Speed HV DC BUS voltage	
Data Log.	By-pass intervention Overheats Overloads Battery interventions Total discharge Events Alarms	

The UPS allows also the following settings by display:

Output	Voltage Frequency
Input	Enable freq. synchronizing
By-pass	Enabling Forced ECO Mode batteries

5. STANDARDS AND REGULATIONS

95 2004 108 and it comply with following standards
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Batteries
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WEEE
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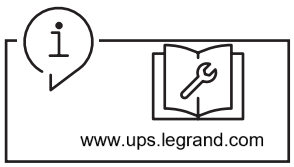
Packaging :
Design and manufacture of packaging compliant with European Directive 94/62/CE.

The UPS TriMOD is CE marked in accordance with EU directives 2006 95 2004 108

CE

6. OTHER INFORMATIONS



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Modular Battery Cabinet

Cat.No : 3 113 22 - 3 113 23 - 3 113 24 - 3 113 25 - 3 113 26 - 3 113 27 - 3 113 28

CONTENT **Page**

1. CHARACTERISTICS

Legrand offers a modular battery cabinet for TriMOD UPS.
The modular battery cabinet family is designed to house standard VRLA Batteries of 9Ah capacity (C10).
The modular battery cabinets, with 2 different mechanical dimensions, are able to contain various combination of Batteries, connected in series and installed in a drawer for hot swap connection and with max DC voltage of 240Vdc. 4 battery drawers are connected in parallel to reach a full string of 20 batteries. Each battery drawer can house 5 batteries of 9Ah capacity.
Legrand Modular Battery cabinets are available in:

- empty version, with drawers and without batteries.
- version equipped with drawers and batteries.

The battery drawers are fastened to the structure with screws, so it is possible to open the battery cabinet door in total safety; batteries are inside the drawers and isolated on the front by the plastic handle of the drawer itself.
The proper ventilation is guaranteed, with natural air circulation, thanks to the ventilation holes, on cabinet side and rear panels.

1.1 Specific application

Ideal solution for IT and Data Centre applications

2. TECHNICAL DATA

2.1 General characteristics

Nominal Voltage	240 Vdc
Battery segregation	Batteries are inside the drawers and isolated on the front by the plastic handle of the drawer itself
Switches and protection access	Internal bottom front side
Disconnection and protection devices	Fuse holders Switch with CH fuses
Cable Entrance	Bottom sides (both left and right)
Cable connections	On Fuse holder terminals
Cabinet Access	Front door with key lock and removable sides and rear panels
Protection Degrees	IP20
Colour	RAL9003, RAL9011
Packaging	Carton box, Cabinet base with Forklift Access
Standard	IEC-EN62040-1

2.2 Modular Battery Cabinet

Item	Cabinet Dimension (L x D x H) mm	Switches and Protection Kit	Terminal screws	Weight (kg)	Batt(Ah)	No. of drawers
311322*	414x628x1370	8x FUSE HOLDER 3P GG 50A 14x51	4 x M6	89	9	16
311323*	414x628x1650	10x FUSE HOLDER 3P GG 50A 14x51	4 x M6	95	9	20
311324	414x628x1370	8x FUSE HOLDER 3P GG 50A 14x51	4 x M6	150	9	4
311325	414x628x1370	8x FUSE HOLDER 3P GG 50A 14x51	4 x M6	204.8	9	8
311326	414x628x1370	8x FUSE HOLDER 3P GG 50A 14x51	4 x M6	263.8	9	12
311327	414x628x1370	8x FUSE HOLDER 3P GG 50A 14x51	4 x M6	318	9	16
311328	414x628x1650	10x FUSE HOLDER 3P GG 50A 14x51	4 x M6	389.2	9	20

* Without batteries

3. STANDARDS AND REGULATIONS

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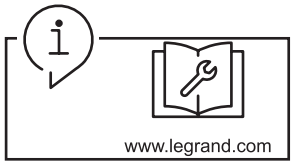
- EN 62040-3: Performances and testing rules

CE

4. OTHER INFORMATIONS



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