



TELEGROUP

CATALOGUE 2019

UPS, Voltage Stabilizers,
AC/DC Rectifiers Battery chargers



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About Us

Established in the mid-80s, TELEGROUP was born from an idea by Fabiano Bagnoli, still today Managing and Technical Director of the Company. At that time, he was already founder of a well-known electrical installation company in the Chianti hills, more precisely in Sambuca, a worldwide symbol of history, art and culture.

From the start, TELEGROUP has been focusing its activity on the development, production and marketing of Low-voltage Power Factor Correction systems, which still represent the core business of the Company.

In just a few short years, thanks to the business strategy which was entirely concentrated on extremely high quality products, TELEGROUP successfully established itself in the Italian market as a synonym of reliability.

The will and perseverance within the Company to continually insist on quality has over the years been rewarded with numerous supplies to Italian and international end customers, leaders in their sectors who have chosen and have entrusted TELEGROUP with the development and implementation of LV PFC Systems for their plants.

Today, after thirty years of operations, TELEGROUP remains a dynamic, innovative company on the Italian and International electrical stage, with a Distribution Network able to cover over 40 countries worldwide.



OVER
30 YEARS
OF EXPERIENCE



QUALITY
PRODUCTS



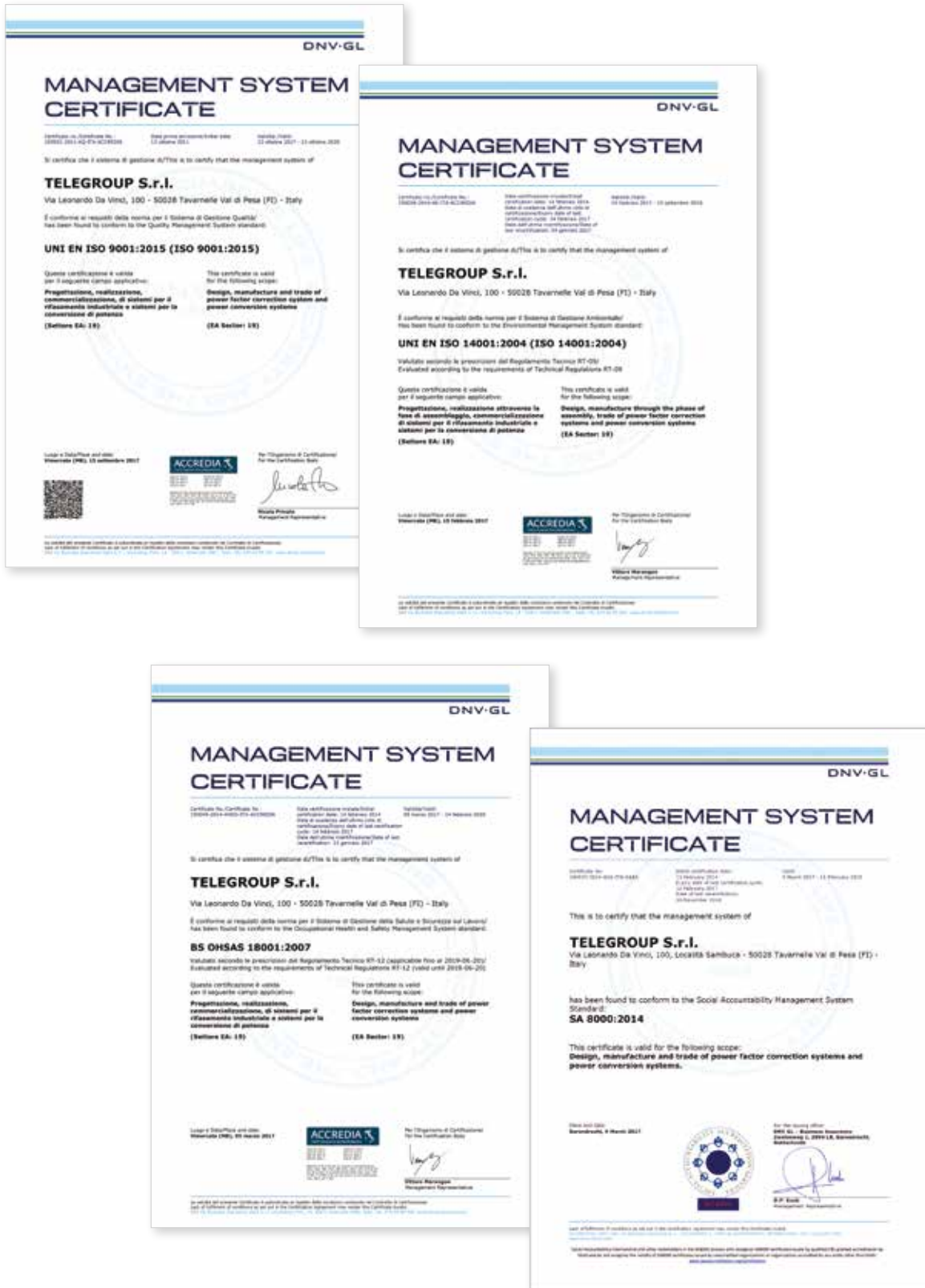
OVER
40 COUNTRIES
SERVED WORLDWIDE

Quality

Company certifications

TELEGROUP is a company certified in accordance with ISO 9001:2015, ISO 14001:2004, BS OHSAS 18001:2007, SA 8000:2014, issued by DNV, one of the most accredited certification bodies in the world.

All company processes, from design and procurement to production and testing up to sales and service, have been certified according to regulations and therefore represent further proof of the quality TELEGROUP process.



telCAB

CEI 0-16

|| 1 ÷ 5 kVA

UPS On-line double conversion 1/1 Phase

Introduction

TELCAB is a series of 1/1 phase UPS with On-line double conversion technology ("zero" time), which follow the prescription of CEI 0-16 standards, for the protection of the auxiliaries in MV/LV substations. TELCAB has been developed for ensuring the backup service for a time not less 60 minutes.

The UPS are equipped with alarms board (Fault, UPS On, Bypass, low batteries, + E.P.O.) and reload reserve; thanks to this function, TELCAB is able to never discharge its batteries at all, for maintaining the needed backup for restarting the system.

Input Voltage	230 Vac 1phase + N \pm 20 %
Input Frequency	50 – 60 Hz \pm 10 %
Output Voltage	220 Vac 1phase + N \pm 1 %
Output Frequency	50 – 60 Hz \pm 1 %
Crest Factor	3:1
Wave Form	sinusoidal
Output THD	3 % linear load 6 % no-linear load
Bypass Voltage	220 ÷ 240 Vac
Bypass Frequency	50 – 60 Hz \pm 5 %
Batteries	VRLA/AGM/GEL
Recharging time	7 hours at 90 %
Transfer time AC/DC	Zero
Transfer time Inverter / Bypass	2,5 ms
Overload	105-130 % 10 min > 130 % 1 min.
Display	% load % backup time, net operation, batteries operation, bypass, fault
Alarms	Overload, low charge of batteries, fault, no network
Temperature	0 / +40°C
Humidity	< 95 % not condensing
Noise	\leq 60 db / 1 mt
Communication	RS232 optional SNMP optional
Standards	EN62040-1-1, dir. 73/23/EC, EN50091-2 cl. A, dir 2004/108/EC, CE



Standard configuration ■ telCAB

Code	Power		Backup time				Dim. UPS (mm)	Dim. BOX (mm)	Weight Kg
	KVA	KW	Min	W	Min	W			
TELCAB0103607	1	0,7	60	150	120	70	145x220x400		15
TELCAB0103609	1	0,7	60	200	120	120	145x220x400		19
TELCAB0209607	2	1,4	60	500	120	330	192x340x460		32
TELCAB0209609	2	1,4	60	650	120	400	192x340x460		43
TELCAB0209618	2	1,4	60	1000	120	800	192x340x460	192x340x460	43/45
TELCAB0209627	2	1,4	60	1500	120	1000	192x340x460	192x340x460	43/60
TELCAB0309634	3	2,1	60	2000	120	1500	192x340x460	260x570x720	20/135
TELCAB0524018	5	3,5	60	2500	120	2000	260x570x720		43

Standard configuration ■ telCAB-R

Code	Power		Backup time				Dim. UPS (mm)	Dim. BOX (mm)	Weight Kg
	KVA	KW	Min	W	Min	W			
TELCAB0103607-R	1	0,7	60	150	120	70	145x220x400		15
TELCAB0103609-R	1	0,7	60	200	120	120	145x220x400		19
TELCAB0209607-R	2	1,4	60	500	120	330	192x340x460		32
TELCAB0209618-R	2	1,4	60	1000	120	800	192x340x460	192x340x460	43/45
TELCAB0209627-R	2	1,4	60	1500	120	1000	192x340x460	192x340x460	43/60

POWER vision

|| 1 ÷ 10 kVA

1/1 phase On-line UPS

Introduction

POWER-VISION is a series of 1/1 phase UPS with On-line double conversion technology ("zero" time). Thanks to the ease of installation and the numerous display and communication options, POWER-VISION is suitable for any application from electromedical to security, from informatics to large data centers.

IGBT inverter and rectifier, sinusoidal waveform, voltage and frequency stability both in presence and absence of network, are some of the features that make POWER-VISION a UPS able to guarantee total protection and lasting over time.

Input Voltage	230 Vac 1phase + N ± 20 %
Input Frequency	50 – 60 Hz ± 10 %
Output Voltage	220 Vac 1phase + N ± 1 %
Output Frequency	50 – 60 Hz ± 1 %
Crest Factor	3:1
Wave Form	sinusoidal
Output THD	3 % linear load 6 % no-linear load
Bypass Voltage	220 ÷ 240 Vac
Bypass Frequency	50 – 60 Hz ± 5 %
Batteries	VRLA/AGM/GEL
Recharging time	7 hours at 90 %
Transfer time AC/DC	Zero
Transfer time Inverter / Bypass	2,5 ms
Overload	105-130 % 10 min > 130 % 1 min.
Display	% load % backup time, net operation, batteries operation, bypass, fault
Alarms	Overload, low charge of batteries, fault, no network
Temperature	0 / +40°C
Humidity	< 95 % not condensing
Noise	≤ 60 db / 1 mt
Communication	RS232 optional SNMP optional
Standards	EN62040-1-1, dir. 73/23/EC, EN50091-2 cl. A, dir 2004/108/ EC, CE



Standard configuration ■ 1 ÷ 3 kVA

Code	Power		Backup Time (min)		Dim. UPS (mm) (WxHxD)	Dim. BOX (mm) (WxHxD)	Weight Kg
	KVA	KW	100%	80%			
PV11107	1	0,7	7	10	145x220x400		14
PV11110	1	0,7	10	14	145x220x400		15
PV11119	1	0,7	19	33	192x340x460		35
PV11132	1	0,7	32	57	192x340x460		36
PV11164	1	0,7	64	116	192x340x460	192x340x460	36/42
PV11208	2	1,4	8	13	192x340x460		36
PV11214	2	1,4	14	19	192x340x460		40
PV11227	2	1,4	27	33	192x340x460	192x340x460	36/42
PV11236	2	1,4	36	53	192x340x460	192x340x460	40/45
PV11259	2	1,4	59	115	192x340x460	192x340x460	40/65
PV11306	3	2,1	6	9	192x340x460		36
PV11309	3	2,1	9	12	192x340x460		40
PV11318	3	2,1	18	39	192x340x460	192x340x460	36/42
PV11332	3	2,1	32	49	192x340x460	192x340x460	36/58
PV11345	3	2,1	45	65	192x340x460	192x340x460	40/65
PV11362	3	2,1	62	110	192x340x460	260x570x720	20/115

Standard configuration ■ 5 ÷ 10 kVA

Code	Power		Backup Time (min)		Dim. UPS (mm) (WxHxD)	Dim. BOX (mm) (WxHxD)	Weight Kg
	KVA	KW	100%	80%			
PV11509	5	3,5	9	13	260x570x720		105
PV11514	5	3,5	14	23	260x570x720		115
PV11529	5	3,5	29	42	260x570x720	260x570x720	115/75
PV11544	5	3,5	44	57	260x570x720	260x570x720	115/85
PV11559	5	3,5	59	70	260x570x720	260x570x720	115/115
PV115119	5	3,5	119	170	260x570x720	2x260x570x720	65/2x85
PV11607	6	4,2	7	11	260x570x720	108	
PV11610	6	4,2	10	14	260x570x720	118	
PV11618	6	4,2	18	29	260x570x720	260x570x720	108/78
PV11632	6	4,2	32	46	260x570x720	260x570x720	108/87
PV11643	6	4,2	43	54	260x570x720	260x570x720	108/120
PV11665	6	4,2	65	119	260x570x720	2x260x570x720	66/2x140
PV116122	6	4,2	122	165	260x570x720	2x260x570x720	118/2x140
PV111005	10	7	5	8	260x570x720	122	
PV111010	10	7	10	14	260x570x720	260x570x720	115/80
PV111016	10	7	16	23	260x570x720	260x570x720	122/90
PV111027	10	7	27	42	260x570x720	260x570x720	115/143

Optionals

Code	
SNMP	UPS monitoring via LAN/Ethernet
S1-10DA	n. 6 voltage free contacts + E.P.O.

TRIDUAL plus

|| 10 ÷ 15 kVA

3/1 phase On-line UPS

Introduction

TRIDUAL-PLUS is a series of 3/1 phase UPS with On-line double conversion technology ("zero" time). Thanks to the ease of installation and the numerous display and communication options, POWER-VISION is suitable for any application from electromedical to security, from informatics to large data centers.

IGBT inverter and rectifier, sinusoidal waveform, voltage and frequency stability both in presence and absence of network, are some of the features that make TRIDUAL-PLUS a UPS able to guarantee total protection and lasting over time.

Input Voltage	400 Vac 3phase + N ± 20 %
Input Frequency	50 – 60 Hz ± 10 %
Output Voltage	220 Vac 3phase + N ± 1 %
Output Frequency	50 – 60 Hz ± 1 %
Crest Factor	3:1
Wave Form	sinusoidal
Output THD	3 % linear load 6 % no-linear load
Bypass Voltage	220 ÷ 240 Vac
Bypass Frequency	50 – 60 Hz ± 5 %
Batteries	VRLA/AGM/GEL
Recharging time	7 hours at 90 %
Transfer time AC/DC	Zero
Transfer time Inverter / Bypass	2,5 ms
Overload	105-130 % 10 min > 130 % 1 min.
Display	% load % backup time, net operation, batteries operation, bypass, fault
Alarms	Overload, low charge of batteries, fault, no network
Temperature	0 / +40°C
Humidity	< 95 % not condensing
Noise	≤ 60 db / 1 mt
Communication	RS232 optional SNMP optional
Standards	EN62040-1-1, dir. 73/23/EC, EN50091-2 cl. A, dir 2004/108/EC, CE



Standard configuration 10 ÷ 15 kVA

Code	Power		Backup time (min)		Dim. UPS (mm) (WxHxD)	Dim. BOX (mm) (WxHxD)	Weight Kg
	KVA	KW	100%	80%			
TP311005	10	7	5	8	260x560x720	260x570x720	85/80
TP311010	10	7	10	14	260x560x720	260x570x720	85/90
TP311058	10	7	58	70	260x560x720	2x260x570x720	85/2x180
TP311504	15	10,5	4	9	260x560x720	260x570x720	87/130
TP311508	15	10,5	8	11	260x560x720	260x570x720	87/140

Optionals

Code	
SNMP	UPS monitoring via LAN/Ethernet
S1-10DA	n. 6 voltage free contacts + E.P.O.

EPS EN50171

|| 1 ÷ 5 kVA

UPS On-line double conversion 1/1 Phase

Introduction

EPS is an UPS series for the supply of emergency lightings, as per EN50171 standards, which imposes specified parameters for sizing the UPS and dividing it in CPSS (Central Power Supply System) o LPSS (Low Power Supply System).

Input Voltage	230 Vac 1phase + N ± 20 %
Input Frequency	50 – 60 Hz ± 10 %
Output Voltage	220 Vac 1phase + N ± 1 %
Output Frequency	50 – 60 Hz ± 1 %
Crest Factor	3:1
Wave Form	sinusoidal
Output THD	3 % linear load 6 % no-linear load
Bypass Voltage	220 ÷ 240 Vac
Bypass Frequency	50 – 60 Hz ± 5 %
Batteries	VRLA/AGM/GEL
Recharging time	7 hours at 90 %
Transfer time AC/DC	Zero
Transfer time Inverter / Bypass	2,5 ms
Overload	105-130 % 10 min > 130 % 1 min.
Display	% load % backup time, net operation, batteries operation, bypass, fault
Alarms	Overload, low charge of batteries, fault, no network
Temperature	0 / +40°C
Humidity	< 95 % not condensing
Noise	≤ 60 db / 1 mt
Communication	RS232 optional SNMP optional
Standards	EN62040-1-1, dir. 73/23/EC, EN50091-2 cl. A, dir 2004/108/EC, CE



Standard configuration

Code	Power		Backup time min	Dim. UPS (mm) (WxHxD)	Dim. BOX (mm) (WxHxD)	Weight Kg
	VA	W				
PVEPSL060009	860	600	60'	192x340x460		40
PVEPSL100018	1430	1000	60'	192x340x460	192x340x460	36/42
PVEPSC150027	2150	1500	60'	192x340x460	192x340x460	36/58
PVEPSC200014	2850	2000	60'	260x570x720	260x570x720	108/78
PVEPSC250018	3570	2500	60'	260x570x720	260x570x720	108/87
PVEPSC300021	4290	3000	60'	260x570x720	260x570x720	108/87
PVEPSC400027	5700	4000	60'	260x570x720	260x570x720	115/143
PVEPSC500036	7140	5000	60'	260x570x720	260x570x720	115/143
PVEPSL060018	860	600	120'	192x340x460	192x340x460	36/42
PVEPSL100027	1430	1000	120'	192x340x460	192x340x460	36/58
PVEPSC150018	2150	1500	120'	260x570x720	260x570x720	108/78
PVEPSC200021	2850	2000	120'	260x570x720	260x570x720	108/87
PVEPSC250027	3570	2500	120'	260x570x720	2x260x570x720	66/2x140
PVEPSC300036	4290	3000	120'	260x570x720	2x260x570x720	118/2x140
PVEPSC400045	5700	4000	120'	260x570x720	2x260x570x720	122/2x140

smart EVS

|| 3,5 ÷ 30 kVA

Electromechanic single-phase Voltage stabilizer

Introduction

SMART-EVS is the series of single-phase electromechanical voltage stabilizers with micro-processor technology and servomotor. Powers from 3,5 kVA up to 30 kVA.

Application

Motors with large inrush currents
Industrial processes
Water lifting pumps

Input Voltage	230 Vac 1phase
Input Voltage Range	165 ÷ 255 Vac
Input Voltage Operation	130 ÷ 270 Vac
Input Frequency	50 Hz – 60 Hz ± 10 %
Output Voltage	230 Vac 1phase ± 1 %
Regulation speed	70 ÷ 200 V/s
Output Frequency	50 Hz – 60 Hz ± 10 %
Overload	150 % 1 s / 200 % 1 ms
Efficiency	Up to 98 %
Cooling	Temperature control system
Output protection	Short circuit, low-high voltage, overload, overtemperature, fault
Bypass	Manual
Display	LCD 2x16 RMS Voltage In/Out, % load , frequency
Temperature	0 / +40°C
Humidity	< 95 % not condensing
Noise	≤ 45 db / 1 mt
Altitude	< 3000 mt
Protection degree	IP20 external IP00 internal
Reference standard	EN62040-1-1, dir.73/23/EC, 93/68/EC, EN50091-2 cl. A, dir 2004/108EC



Standard configuration

Code	Power KVA	Max. Current A	Dim. UPS (mm) (WxHxD)	Weight Kg
SMEVK3.5	3.5	15	450x270x350	30
SMEVK5	5	20	450x270x350	41
SMEVK7.5	7.5	28	550x270x350	48
SMEVK10	10	40	550x270x350	57
SMEVK15	15	62	590x320x400	75
SMEVK20	20	80	500x850x500	120
SMEVK30	30	130	500x850x500	150

master EVS

|| 25 ÷ 150 kVA

Electromechanic three-phase Voltage stabilizer

Introduction

MASTER-EVS is the series of three-phase electromechanical voltage stabilizers with microprocessor technology and servomotor. Powers from 25 kVA up to 150 kVA in standard version. Independent phase control and front panel display, MASTER-EVS stabilizers are the optimal solution for any type of user.

Applications

Motors with large inrush currents
Industrial processes
Water lifting pumps

Input Voltage	400 Vac 3-phase+N
Input Voltage Range	310 ÷ 440 Vac
Input Voltage Operation	300 ÷ 465 Vac
Input Frequency	50 Hz – 60 Hz ± 10 %
Output Voltage	400 Vac 3-phase ± 3 %
Regulation speed	70 ÷ 200 V/s
Output Frequency	50 Hz – 60 Hz ± 10 %
Overload	150 % 1 s / 200 % 1 ms
Efficiency	Up to 98 %
Cooling	Temperature control system
Output protection	Short circuit, low-high voltage, overload, overtemperature, fault
Bypass	Manual
Display	LCD 2x16 RMS Voltage In/Out, % load , frequency
Temperature	0 / +40°C
Humidity	< 95 % not condensing
Noise	≤ 45 db / 1 mt
Altitude	< 3000 mt
Protection degree	IP20 external IP00 internal
Reference standard	EN62040-1-1, dir.73/23/EC, 93/68/EC, EN50091-2 cl. A, dir 2004/108EC



Standard configuration

Code	Power KVA	Max current A	Dim. UPS (mm) (WxHxD)	Weight Kg
MAEVSK 25	25	36	600x1190x440	170
MAEVSK 30	30	43	600x1190x440	170
MAEVSK 45	45	64	600x1190x440	220
MAEVSK 60	60	86	850x1400x640	350
MAEVSK 75	75	108	850x1400x640	380
MAVSK 100	100	144	750x1500x750	450
MAVSK 120	120	173	750x1500x750	550
MAVSK 150	150	216	750x1500x850	650

ALMS

24, 48, 110 Vdc

10 ÷ 40 A

Single-branch Rectifier-battery charger

Introduction

ALMS is a series of single-branch Rectifiers-battery chargers, with single-phase and three-phase input, and 24, 48 and 110 Vdc output, with "zero" intervention time. The "Single Branch" technology foresees the use of only one AC / DC module, which will provide both power supply and recharge batteries, are equipped with digital voltmeter / ammeter, three-pole switch disconnecter with lock operation /door.

Applications

Auxiliary circuits of MV/LV substation
Emergency lighting

Input Voltage	230 Vac 1ph ± 20 % (3ph on request)
Input/Output Frequency	50 Hz
Output Voltage	24, 48 or 110 Vdc 1,13 Vn batteries charged 0,9 Vn batteries discharged
Ripple	< 1 %
Operating Temperature	0 /+ 40°C
Humidity	< 95% not condensing
Noise	< 55 dB
Altitude	< 1000 m
Cooling	Natural
Standards	EN60950 EN55022 EN61000-3



Technology

AC/DC module, chopper technology, for the load supply and battery charging.

Protection

Three-pole Switch disconnecter with door interlock
Protection fuses for batteries

Batteries

Lead-acid batteries 12 V (2 V on request), installed internally, expected life 10 years at 25°C as mentioned from manufacturers.

Cabinet

Sheet-steel enclosure 15 and 20/10, painted with epoxy dust paint, colour RAL7035 (others on request).

Protection degree IP30 external (IP54 on request), IP00 internal (IP20 with open doors on live parts), input of cables from the top

Monitoring

Voltmeter and Ammeter on front panel, for load

Opzionals:

- KIT Alarms (fault, low load of batteries and NO network)
- Switch off contactor for low load of batteries

Standard configuration

Code	Power W	Input Vac	Output (load/batteries)		Backup time min.	Dimensions (WxHxD) mm	Weight Kg
			Vdc	A			
ALMS241018	240	230	24	10	60	455x705x315	30
ALMS241026	240	230	24	10	120	455x705x315	36
ALMS242540	600	230	24	25	60	455x705x315	40
ALMS242565	600	230	24	25	120	600x860x400	77
ALMS244065	960	230	24	40	60	600x860x400	79
ALMS2440100	960	230	24	40	120	600x860x400	95
ALMS481018	480	230	48	10	60	455x705x315	37
ALMS481026	480	230	48	10	120	455x705x315	45
ALMS482040	960	230	48	20	60	600x860x400	85
ALMS482052	960	230	48	20	120	600x1060x400	96
ALMS483055	1440	230	48	30	60	600x1060x400	101
ALMS483080	1440	230	48	30	120	600x1060x400	125
ALMS1101018	1100	230	110	10	60	600x860x400	84
ALMS1101026	1100	230	110	10	120	600x1060x400	104
ALMS1101526	1650	230	110	15	60	600x1060x400	105
ALMS1101540	1650	230	110	15	120	600x1410x400	154

ALMd

24, 48, 110 Vdc

10 ÷ 60 A

Double-branch Rectifier-battery charger

Introduction

ALMD is a series of double-branch Rectifiers-battery chargers, with single-phase and three-phase input, and 24, 48 and 110 Vdc output, with "zero" intervention time. The "Double Branch" technology foresees the use of two AC / DC modules, which will provide one to the power supply and the other to recharge of batteries, are equipped with digital voltmeter / ammeter, three-pole switch disconnecter with lock operation /door.

Applications

Auxiliary circuits of MV/LV substation
Emergency lighting

Input Voltage	230 Vac single-phase (400 Vac three-phase on request)
Input/Output Frequency	50 Hz
Output Voltage	24, 48 or 110 Vdc 1,13 Vn batteries charged 0,9 Vn batteries discharged
Ripple	< 1 %
Operating Temperature	0 /+ 40°C
Humidity	< 95% not condensing
Noise	< 55 dB
Altitude	< 1000 m
Cooling	Natural
Standards	EN60950 EN55022 EN61000-3



Technology

AC/DC module, chopper technology; one module provides for the load supply, one additional module provides to the charge of batteries.

Protection

Three-pole Switch disconnecter with door interlock
Protection fuses for batteries

Batteries

Lead-acid batteries 12 V (2 V on request), installed internally, expected life 10 years at 25°C as mentioned from manufacturers.

Cabinet

Sheet-steel enclosure 15 and 20/10, painted with epoxy dust paint, colour RAL7035 (others on request).

Protection degree IP30 external (IP54 on request), IP00 internal (IP20 with open doors on live parts), input of cables from the top

Monitoring

Voltmeter and Ammeter on front panel, for load

Opzional:

- KIT Alarms (fault, low load of batteries and NO network)
- Switch off contactor for low load of batteries

Standard configuration

Code	Power	Input	Output load		Output batteries		Backup time	Dimensions (WxHxD)	Weight
	W	Vac	Vdc	A	Vdc	A	min.	mm	Kg
ALMD2430055	720	230	24	30	24	5	60	600x860x400	72
ALMD2430070	720	230	24	30	24	8	120	600x860x400	84
ALMD2462100	1490	230	24	62	24	11	60	600x860x400	105
ALMD2462160	1490	230	24	62	24	16	120	600x1410x400	150
ALMD4815026	720	230	48	15	48	3	60	600x860x400	69
ALMD4815040	720	230	48	15	48	4	120	600x860x400	90
ALMD4830055	1440	230	48	30	48	5	60	600x1060x400	106
ALMD4830080	1440	230	48	30	48	8	120	600x1060x400	130
ALMD4850080	2400	230	48	50	48	9	60	600x1060x400	240
ALMD4850125	2400	230	48	50	48	13	120	600x1730x600	310
ALMD11010018	1100	230	110	10	110	2	60	600x860x400	95



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