



Company Profile

ED. 2023 V0.63

LEVER S.R.L

Viale del Lavoro 17 – 37024 Negrar (VR) – Italy – www.lever.it

LEVER in short

Company overview



VERONA

LEVER was founded in 1973 near Verona (Italy). LEVER has been a project-based manufacturing Company for 50 years.

Over the years, the Company has focused its business on the design, production and after sale service of power electronics systems: AC UPS, DC/AC inverters, rectifiers/DC chargers and low voltage distribution boards



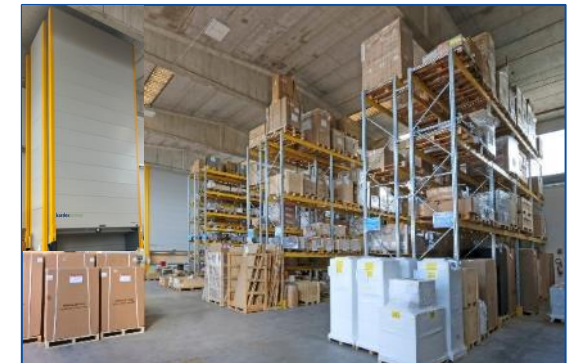
HEADQUARTER



R&D



PRODUCTION



WAREHOUSE

Our business



LEVER UPS products are specifically designed and manufactured to ensure the maximum power availability in the most demanding environments (according to the technical specifications of the End-User/EPCs)



OIL & GAS

- Offshore platforms
- Onshore prod. sites
- Pipelines
- Upstream&downstream
- Subsea
- Petrolchemical
- Tank Farms



Building & Industries

- Industrial Plants
- Cement
- Chemical
- Mining
- Fertilizers
- Food Industry
- Beverage Industry



Utilities

- Power Generation
- Transmission
- Distributions
- Substations
- Desalination plants
- Water treatment
- Renewable energy



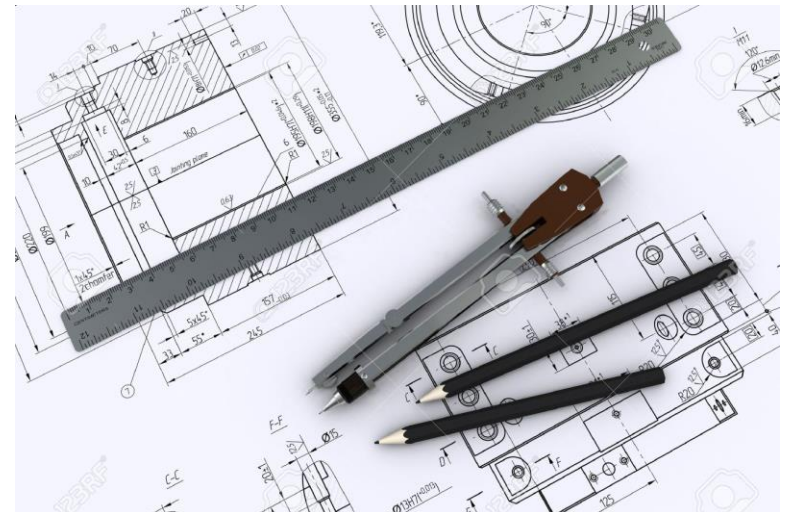
Transport infrastruct.

- Rail trackside
- Road
- Tunnels
- Marine
- Airports
- Signaling

DEP - Design and Engineering Practices

the benefit of standardization for the technical approach and economic optimization

In LEVER, during the order execution, each internal process is monitored to ensure either that the final product will be exactly as agreed with the Customer, as well as the deadline given by the customer is respected. We pay a lot of efforts to ensure the documents availability at any time of the process, per specific needs of the job or of the Client. All the activities are made following a Project Plan, agreed with the Customer. Documents for approval, Manufacturing clearance, Factory Acceptance Test (FAT), Delivery, Testing & Commissioning, Site Acceptance Test (SAT), drawings as built and final book are usually managed by LEVER.



Our scope of supply

AC and DC industrial UPS systems & battery



DPS



"DPS" customized industrial AC UPS*

- Thyristors rectifier unit
- IGBT inverter unit
- 110, 220, 360 V DC bus
- 5÷200 kVA

AC UPS

SME

MIR



"SME", "MIR" customized industrial battery chargers*

- IGBT rectifier unit (MIR)
- Thyristors rectifier bridge (SME)
- Output 24, 48, 110, 220 V_{dc}
- Output 40÷600 A (MIR)
- Output 30÷2500 A (SME)

BATTERY CHARGERS – DC UPS

"INV" customized industrial DC/AC inverter*

- IGBT inverter unit
- Input 110 or 220 V_{dc}
- 5÷200 kVA



INV

DC/AC INVERTERS



Custom AC and DC low voltage distribution boards*

DISTRIBUTION BOARDS



Lead acid, NiCd Industrial battery & accessories (battery rack, disjunction box...)

BATTERY & ACCESSORIES

*Based on Client's Technical Specification

LEVER organization

Process-focused & innovation driven



LEVER is a **process-focused organization**, ensuring high performances in our products and in the overall organization efficiency. Our projects are developed following **project management methodologies** and the organization is **innovation driven** thanks to the strong R&D commitment

LEVER INTERNAL DEPARTMENTS

 R&D	 Technical & Project Management
 Sales & Marketing	 Production
 Testing (FAT)	 Commissioning (SAT)
 After Sales Service & Spare parts	 Purchase & Logistic
 Finance & Administration	 Quality System Management <small>ISO 9001:2015 ISO 14001:2015 OHSAS 18001:2007</small>

LEVER key infos



>30% GRADUATES



>5% OF ANNUAL REVENUES IN R&D



>3000 m² BUILDING AREA



100% ITALIAN ENGINEERING AND MANUFACTURING



PRODUCTS APPROVED BY THE MOST REPUTED END-USERS IN EUROPE AND MIDDLE EAST

Certifications & Memberships

Quality, environment, health & safety



After the ISO 9001 certification in 1993, we obtained in 2011 the ISO 14001 and in 2020 ISO 45001 certifications, proof of our continuous commitment to the health, safety and environmental aspects' improvement



LEVER is a full member of the most important Italian Standardization Bodies and Authorities (Confindustria, ANIE, CEI)



ISO 9001, ISO 14001, ISO 45001 Certificates
(validity 2021 - 2024)

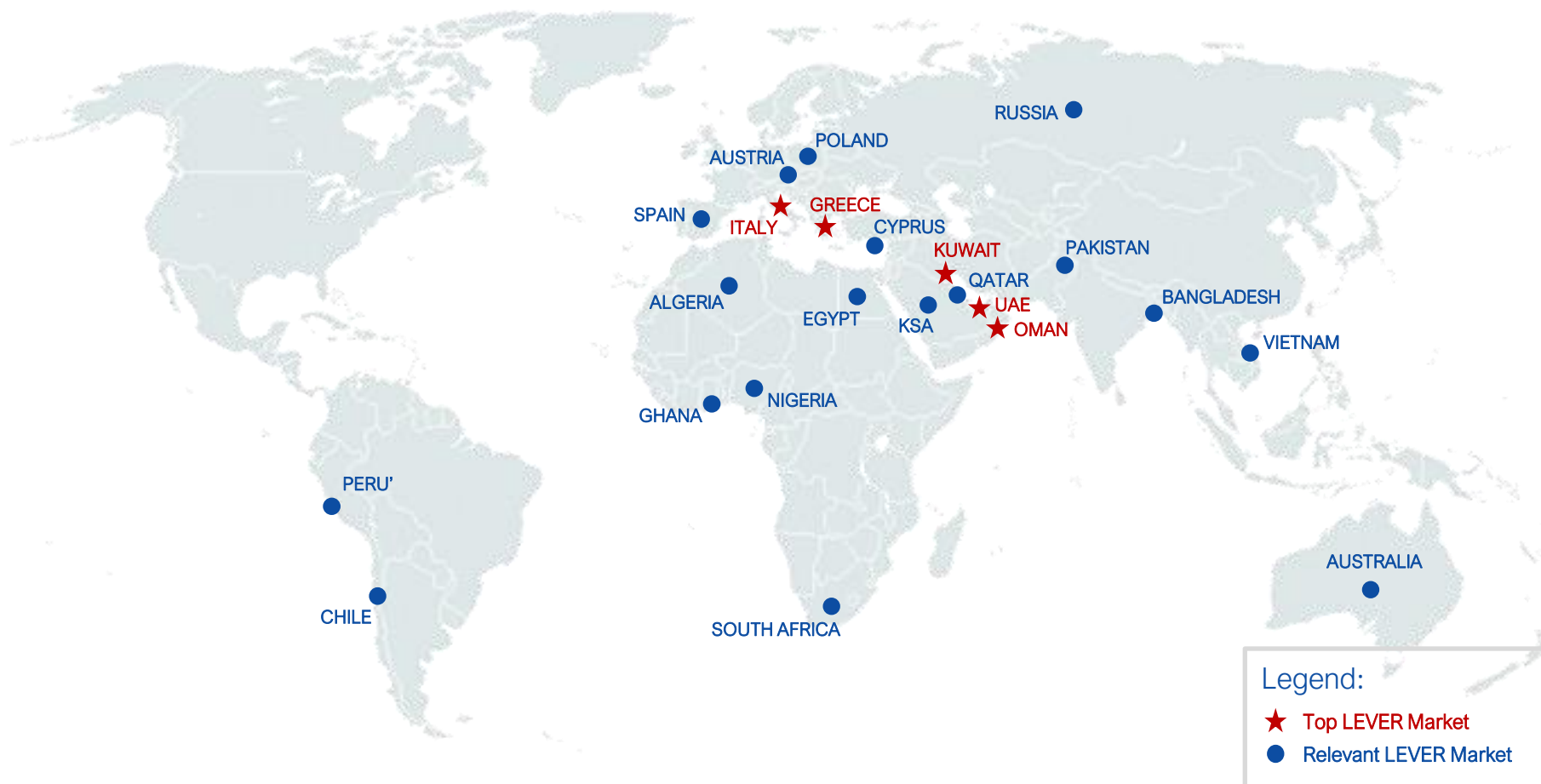
Our products are tested by ISO/IEC 17025 labs:
CESI (Type Test) and CREI Ven (EMC Test)

LEVER world presence

Made in Italy, international presence



LEVER operates globally with **80% sales coming from outside of Italy**. This share is growing thanks to great investments in existing and new business opportunities and by establishing strong relationship with local partners



After Sale Service

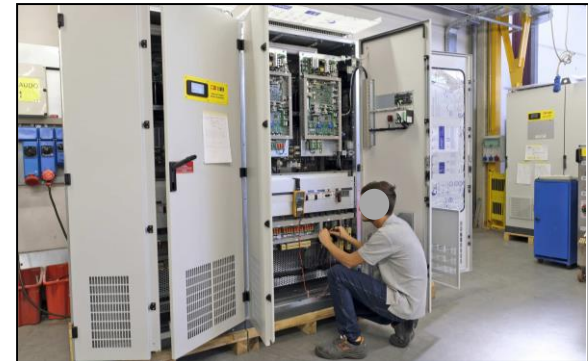
Comprehensive portfolio of services



LEVER “Service team” provides technical support and on-site service worldwide. LEVER’s engineers oversee the maintenance of systems installed anywhere in the world, providing direct support to the Client.

LEVER personnel attended International Maritime Organization STCW/95 training courses and it is enabled to work on the offshore platforms

If required, LEVER can organize FAT and SAT activities with the Client and with a Third Independent Party



FAT, Start-up, SAT



SERVICE



LEVER provides technical trainings to its Clients on-site or at LEVER's Training Centre in Italy

Our local Partners must attend specific technical trainings in Italy before getting the approval to manage LEVER’s systems














TECHNICAL TRAININGS

Vendor list approvals

Oil&Gas and Utilities End-Users



Since the 2000s, LEVER has enhanced its internal processes in order to become a qualified supplier of the world's most reputed Oil & Gas and Utilities End-Users.

Company		Country	Application	Year of qualification	Products	Notes
ENI		Italy	Oil & Gas	2011	- AC UPS - DC Chargers	
DEWA		UAE	Utility	2016, 2019	- DC chargers	- DC chargers for 132/11 kV SS - DC chargers for 400/132 kV SS
SEC		KSA	Utility	2016	- DC chargers	
DCRP		Oman	Utility	2017	- DC chargers	
KOC		Kuwait	Oil & Gas	2017, 2018	- DC chargers	
Ethiad WE		UAE	Utility	2018	- DC chargers	- DC chargers 48 Vdc: done - DC chargers 110 Vdc: ongoing
OETC		Oman	Utility	2019	- DC chargers	
DOE		UAE	Utility	2019	- AC UPS - DC Chargers	
KAHRAMAA		Qatar	Utility	2021	- AC UPS - DC Chargers	
PDO		Oman	Oil & Gas	-	- AC UPS - DC Chargers	- Pre-qualification ongoing
ADNOC		UAE	Oil & Gas	-	- AC UPS - DC Chargers	- Pre-qualification ongoing

Other approvals: SEWA (UAE), Hellenic Petroleum SA (Greece), ENEL SpA (Italy), TERNA Spa (Italy), Saipem (Italy)

Points of strength

Experience, competitiveness, innovation



LEVER's success has been driven by a **strong focus on the innovation**: many of the technologies that underlie the power solutions and conversion sector nowadays **are engineered and developed by LEVER**.



50 years of experience and expertise in AC and DC UPS for the industrial sector, family business 2nd generation



Highest quality and reliability: all the components are supplied by European and U.S. Companies and the manufacturing manpower is 100% Italian



Competitive prices thanks to the lean organization, the family-run business and the **strong partnerships with suppliers and the leading Battery Manufacturers**



50 years of supply for the most critical applications (Utilities and Oil&Gas) and environmental critical applications



Power Electronics devices, PCBs , software and firmware are 100% designed and manufactured by LEVER thanks to the internal R&D Department and our in-house proprietary technology



RECYCLABLE

Continuous view of the future following the needs of our environment, LEVER devices are 100% recyclable material for a better world



Project references

LUKOIL: Neftochim Burgas Refinery

Oil & Gas

End User



Vendor list

N.A.

Year

2017

Application

Oil & Gas

EPC

Technip

Supply of emergency power solutions for Heavy Residue Process Complex Lukoil Neftochim Burgas in Bulgaria (12 systems in total):

- N.2 dual redundant LEVER industrial "DPS" AC UPS, 20kVA, 3/3
- N.1 dual redundant LEVER industrial "DPS" AC UPS, 80kVA, 3/3
- N.1 dual redundant LEVER industrial "DPS" AC UPS, 100kVA, 3/3
- N.1 LEVER industrial "DPS" AC UPS, 40 kVA, 3/3, provided with distribution board
- N.1 LEVER industrial "DPS" AC UPS, 120 kVA, 3/3, provided with distribution board
- N.2 LEVER industrial battery chargers, output 220V, 100A



Color display

Dual redundant
80 kVA UPS



ATEX battery fuse box

Project



Kuwait Oil Company: Burgan Oil Field project

Oil & Gas

End User



Vendor list



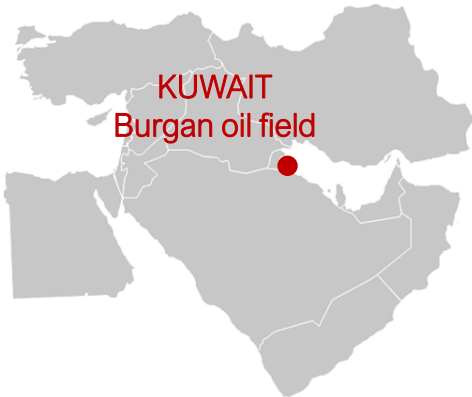
Year

2017

Application

Oil & Gas

EPC



Industrial rectifiers for pipe-line RTU "Remote Terminal Unit" stations in the Burgan Oil Field

- N.23 LEVER modular rectifiers, IP65, enclosure AISI A316L
- 250 V_{ac} input voltage, 24 V_{dc} output voltage
- Output current: 60, 80, 85, 95, 120 A
- Industrial NiCd ultra low maintenance battery
- Distribution boards

NOTIFICATION OF VENDOR APPROVAL

TO: Ms. Lever S.r.l., Italy
 FROM: Team Leader Supplier Relationship Management, Commercial Support Group, P.O. Box - 3759, 6109 Al-Rasheed, Kuwait
 SUBJECT: NOTIFICATION OF VENDOR APPROVAL
 OUR REF.: KOC-282386311168-50000192819

Dear Sirs,

We are pleased to inform you that you have been approved for inclusion in KOC's Approved List of Manufacturer for the product category and manufacturing facility mentioned here below:

PRODUCT CATEGORY : 110V - DC SUPPLY UNITS
 FACILITY ADDRESS : Ms. LEVER S.R.L., VIALE DEL LAVORO, 17, 37024 ARBIZZANO DI NEGRAR, VERONA, ITALY.

Validity : From 30th August 2018 to 29th August 2022 (5 years)

This notification of approval is issued subject to the following, failing which liable for cancellation at any time at the discretion of KOC:

- To negotiate regularly with the latest product catalogue / information.
- To furnish Bid/price Quotations as & when requested.
- To furnish financial details for every two years.
- To update with latest contact details / Change in Local Agent.
- To update with Name Change / Merging / Factory Shifting.
- To submit request for Re-qualification (if required) 3 months prior to the above expiry date.

Sincerely,
 For Kuwait Oil Company

Yousif Al-Sayid
 Team Leader Supplier Relationship Management, Commercial Support Group

KC: Ms. Graziada Petroleum Equipment & Supply Co. (GPSC), Kuwait, Fax: 2265 4260
 File: PRC_CS_17174 2018-011-01_3004-R14-01

LEVER modular rectifier 24V, 120A and its nameplate



KOC LEVER DC & AC UPS approvals

Project Navalmare Clara NW offshore platform

Oil & Gas



Industrial battery chargers for the ENI Clara NW offshore platform, installed in the **Adriatic sea**:

- LEVER custom battery chargers 110 V_{dc} , 250 A
- NiCd battery and earthquake-proof racks
- Electronic components fully tropicalized as per ENI standards
- FAT in LEVER premises
- Commissioning & training on the platform



LEVER industrial battery charger

Clara NW platform in the Adriatic sea



ENI project Val d'Agri oil field

Oil & Gas

End User



Vendor list



Year

2019

Application

Oil & Gas

EPC

-

Industrial AC UPS and battery chargers for Val D'Agri ENI oil field

- LEVER "DPS" AC UPS, power: 20 kVA (1 pz), 30 kVA (2 pz)
- LEVER custom battery chargers 110 V_{dc} , 65A (1 pz), 160A (2 pz)
- VRLA battery and earthquake-proof racks
- FAT in LEVER premises



UPS & Battery charger



ITALY
Val d'Agri



ENI Lever approval

Qatargas: North Field Bravo project

Oil & Gas

End User



Vendor list

N.A.

Year

2019

Application

Oil & Gas

EPC



Industrial AC UPS and battery charger for the Qatargas off-shore plant in the North Field Bravo natural gas field

- N.1 dual redundant LEVER industrial battery chargers, output 48V, 2x120A
- N.1 dual redundant LEVER industrial "DPS" AC UPS, output power 40 kVA
- NiCd battery, distribution boards and battery monitoring systems
- FAT in LEVER premises



▲ Dual redundant industrial battery charger

Battery monitoring system



▲ "DPS" AC UPS, open doors view

MOTOR OIL HELLAS

Oil & Gas

End User



Vendor list



Year

2020

Application

Oil & Gas

EPC  TechnipFMC



Industrial AC UPS and battery chargers

- LEVER "DPS" AC UPS, power: 30 kVA (1 pz), **60 kVA** (2 pz)
- LEVER custom battery chargers 110 V_{dc} , 150A (1 pz)
- NiCd battery and earthquake-proof racks
- FAT in LEVER premises



Premier Oil: North Sea Tolmount Development project

Oil & Gas

End User  PremierOil

Vendor list N.A.

Year 2020

Application Oil & Gas

EPC 

Industrial AC UPS for the Premier-Oil off-shore platform located In the Tolmount gas field, North Sea

- N.1 dual redundant LEVER industrial "DPS" AC UPS, output power 120 kVA
- ATEX battery box
- Low voltage distribution boards
- NiCd battery, 576 Ah



▲ AC UPS before shipping



▲ Premier Oil Tolmount platform



Kinetics Technology : Luanda Refinery Gasoline Production Increase

Oil & Gas

End User



Vendor list



Year

2020

Application

Oil & Gas

EPC

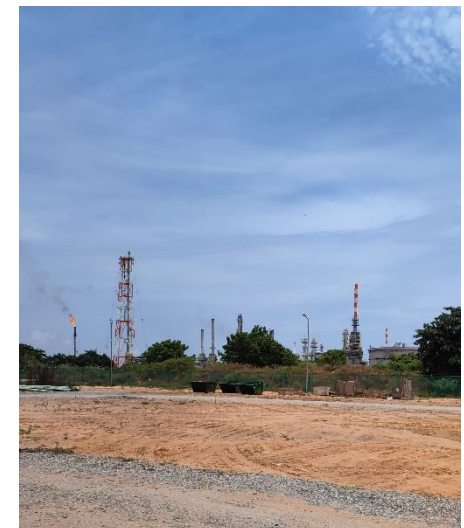


Industrial AC UPS for the Premier-Oil off-shore platform located In the Angola

- N.1 dual redundant LEVER industrial "DPS" AC UPS, output power 100 kVA
- Low voltage distribution boards
- Lead acid batteries 260Ah



▲ AC UPS on site



▲ Luanda Refinery

Abu Dhabi Dept. of Energy: project Umm Al Nar power plant

Utilities

End User



Vendor list



Year

2018

Application

Utilities

EPC

-

Heavy-duty industrial rectifiers for ADWEA/DoE Umm Al Nar power plant

- LEVER custom rectifier, output 110 V, 500 A
- LEVER custom rectifier, output 12 V, 120 A
- LEVER custom rectifier, output 110 V, **1100 A**
- LEVER custom rectifier, output 19.6 V, 350 A
- LEVER custom rectifier, output ± 24 V, 850 A (+V), 400 A (-V)
- LEVER custom rectifier, output ± 24 V, **2100 A (+V)**, **1100 A (-V)**
- Rectifiers provided with blocking diode and drop cells



U.A.E.
Abu Dhabi,
Umm Al Nar



▲ 2100 A / 1100 A
 ± 24 V rectifier

2100 A
rectifier bridge ▲



TERNAL: Italy – Montenegro HVDC interconnection

Utilities

End User 

Vendor list 

Year 2018

Application Utilities

EPC 

Battery chargers, inverter and UPS for the HVDC* interconnection project between Italy (Cepagatti substation) and Montenegro (Kotor substation)

- N.4 LEVER custom battery chargers, output 110V, 400A
- N.2 LEVER "INV" industrial inverter, output power: 15 kVA
- N.1 LEVER "DPS" industrial UPS, power: 20 kVA
- FAT in LEVER premises

Toshiba Contract News
https://www.toshiba.co.jp/about/press/2012_12/pr0701.htm



LEVER "DPS" during its production



LEVER industrial battery charger ready for the shipment



*The HVDC technology is an optimized transmission of electric power, specifically designed for long-distance applications and high-volume lines (including submarine cabling)

Project

OETC: Al Mabelah South Grid Station project

Utilities

End User



Vendor list



Year

2020

Application

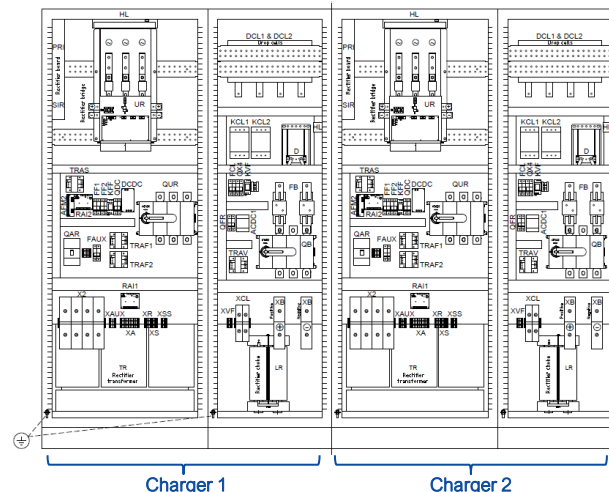
Utilities

EPC



Supply of DC battery chargers for the Al Mabelah (Muscat) substation, OETC Tender ref. 25/2019:

- N.1 dual redundant LEVER "SME" industrial DC battery charger, output 110V, 600A with 2x100% NiCd Battery
- N.1 dual redundant LEVER "SME" industrial DC battery charger, output 110V, 500A with 2x100% NiCd Battery
- N.1 LEVER industrial DC/AC inverter, output power 5kVA
- N. 1 DC-DC Converter 110V-24V
- All the systems are provided with customized DC distribution board
- Services included: Start-up, Commissioning, on-site Training



Mechanical layout of the 2x500A DC charger

Customized DCDB (2 units) provided with n.42 MCBs



Project

DEWA: DC battery charger for 132/11KV substations

Utilities

End User 

Vendor list 

Year 2022

Application Utilities

EPCs: NCC, DANWAY, AG POWER, SIEMENS, L&T

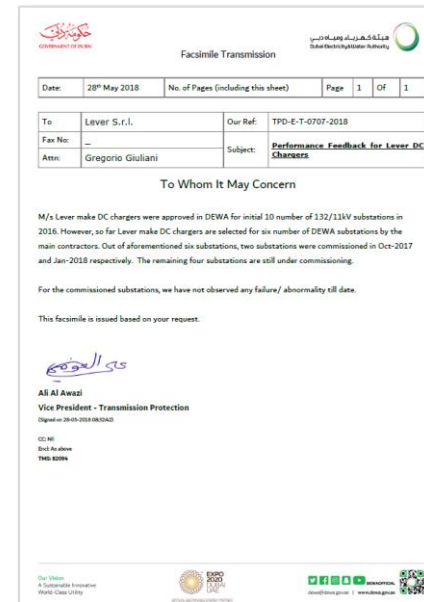


Continuous business with DEWA for approved chargers :

- N.6 LEVER custom battery chargers, output 110V, 300A, redundant
- N.6 LEVER custom battery chargers, output 110V, 120A
- Distribution boards
- Battery monitoring systems
- FAT in LEVER premises



LEVER Engineer and DEWA's battery chargers



Performance Certificate

Project

Power Generation Plant «Alessandro Volta» Montalto di Castro

Utilities

End User 

Vendor list 

Year 2022

Application Utilities

EPC 



Industrial AC/DC UPS to power n°2 Turbines

- N.3 Industrial DC Charger 110V 1400 A
- N. 3 Inverter 50KVA
- N. 4 Distribution Boards
- N.2 Plante' battery, 3500Ah

4 Distribution boards 



 110 V / 1400 A

ANDRITZ HYDRO : Battery chargers for plant TRANSGRID

Utilities

End User 

Vendor list 

Year 2023

Application Utilities

EPC 



Industrial AC UPS for power

N.2 industrial DC Charger 125V 300A Model: LEVER "SME"
Main characteristics:













- Rated input voltage: 400Vac \pm 10%, 3Ph
 - 9 Distribution Boards
 - N.2 Lead acid Battery 1200Ah



125V / 300A

















Project reference - Mix



#	End User	Year	Country	Application	EPC	Project	Products*
1		2023	Australia	Utilities		Battery chargers for plant TRANSGRID	N° 11 Units: - SME 125V 300A - Distribution boards -INV-T 010/11
2		2022	Italy	Utilities		C.T. E. Montalto di Castro (VT)	N°11 Units: - SME 110/1400/SP - Distribution boards -INV-T 050/11
3		2022	Ivory Coast	Oil & Gas		Baleine Phase 1 Project - plant onshore	N°1 -DPS-TM 010/11/SP (off 218)
4		2022	Ivory Coast	Oil & Gas		Baleine Phase 1 SURF	N°1 -DPS- TM 005/22/SP (off 323) Cabinet for outdoor AISI 316L
5		2022	Netherlands	Petrochemical		Neste Rotterdam Site Development	N°12 Units: -DPS-TT 080/36/SP -SME 110/100/SP -DC CONVERTER 24/4-3kW -MIR 24/5.0/176i/SP
6		2022	Italy	Oil & Gas		Enipower Ravenna Revamping Rubbers Plant	N°2 Units: -SME 110/2x400/SP -DPS-TT-P 100/36/SP

Project reference - Mix



#	End User	Year	Country	Application	EPC	Project	Products*
7	 clean energy ahead TURBODEN	2021	El Salvador	Power Plant		UPS for Berlin Geothermal Field	- n.1 Industrial AC UPS 120 kVA - n.2 industrial DC chargers 125V 250A
8	 MOTOR OIL (HELLAS) CORINTH REFINERIES S.A.	2021	Greece	Oil & Gas		New Naphtha Complex Project	- n.2 Industrial AC UPS 60 kVA - n.1 industrial DC chargers 110V 2x80A
9	 الشركة السعودية للكهرباء Saudi Electricity Company Empowering Energy	2020	KSA	Utilities	-	DC Chargers for various substations	- n.8 industrial DC chargers 125V, 200A
10	 الشركة القطرية لنقل الكهرباء OMAN ELECTRICITY TRANSMISSION COMPANY S.A.O.C	2020	Oman	Utilities		132/33 kV Mirbat Grid Stations	- n.2 industrial DC chargers 110V 2x500A - low voltage distribution boards
11		2020	Angola	Oil & Gas		Luanda Refinery Gasoline project	- n.1 Industrial AC UPS 100 kVA - low voltage distribution boards
12		2018	Italy	Utilities		HVDC interconnection Italy and France	- n.4 industrial DC chargers 110V, 400A - n.2 industrial DC/AC inverters 8 kVA
13	 هيئة كهرباء ومياه الشارقة Sharjah Electricity & Water Authority	2017	UAE	Utilities	-	Sharjah Investment Center	- n.1 industrial DC charger 110V 2x250A - n.1 industrial DC/AC inverter 5 kVA
14	Gorge Power Plant project	2017	Zambia	Power Plant		Gorge Power Plant	- n.1 industrial AC UPS 20 kVA - n.2 Industrial AC UPS 10 kVA - n.4 Industrial AC UPS 5 kVA
15	 المؤسسة الإماراتية للطاقة النووية Emirate Nuclear Energy Corporation	2017	UAE	Power Plant		Barakah nuclear power plant project	- n.6 industrial DC chargers 110V, 300A
16		2016	Qatar	Utilities	-	Replacement of battery chargers	- n.11 industrial DC chargers 48V, 70A, 100A, 150A

* "2x" means a system in dual redundant configuration

Thank you for



your attention

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