Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Киргизия (996)312-96-26-47
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Россия (495)268-04-70
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Казахстан (772)734-952-31
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

www.sft.nt-rt.ru | | sfq@nt-rt.ru

# Технические характеристики на никелевые батареи ReGenPro

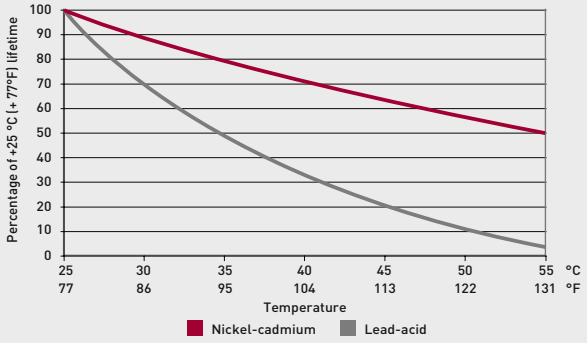
# ReGenPro
# The ideal choice for total security and availability

## India – Your Trusted Battery Partner for Industrial Stationary Applications

has over 100 years of experience working in partnership with leading industrial customers to deliver well-proven Ni-Cd battery solutions optimized to ensure the total security and availability of stationary applications including power backup, engine starting and bulk energy storage. Our engineering philosophy is focused on continual improvement of every aspect of our technologies and industrial processes, ensuring that all India products and components are designed and manufactured to the very highest quality standards.

India's comprehensive global service provides expert support throughout every stage of your battery's life from initial concept through volume supply, installation and training to end of life recycling.


**Effect of temperature on lifetime**




## ReGenPro ensures total reliability and long life – even at high temperatures

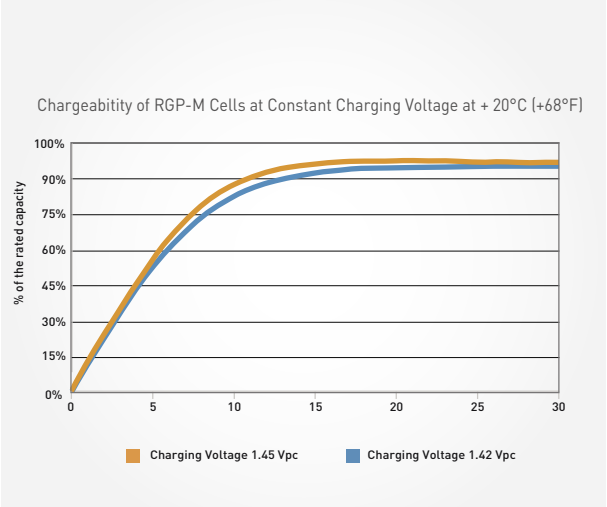
India's robust Ni-Cd technology sets the benchmark for industrial batteries operating in difficult and demanding conditions. It has established a reputation for performance, reliability and a long, totally predictable, service life – with no risk of sudden death failure.

ReGenPro builds on this heritage by ensuring a 20-year plus service life at + 25°C (+ 77°F). Even at + 35°C (+ 95°F), its lifetime falls by just 20% compared with a 50% reduction for a lead-acid battery.

# The 1st Ni-Cd battery for Plug & play replacement of lead-acid


## The perfect fit to replace Lead-Acid batteries:

ReGenPro can be fitted in all commonly used DC-systems where Ultra-Low Maintenance installation is required.
There is a less need for dropping diodes or DC/DC converters as the voltage window across DC busbar is almost same as Lead-Acid batteries. Thus, the cost for the DC-system can be reduced as less components are needed.
Moreover, it has ability to fast recharge ensuring optimal availability after a power failure.




## The Ultra-Low maintenance(1) battery for stationary back-up power applications

ReGenPro is India's latest development in Ni-Cd pocket plate battery technology. It combines Ultra-Low maintenance operation with total reliability to provide the ideal backup power solution for industrial installations.

Together with other key features such as its low pressure flame arresting vent, high electrical performance and chargeability, ReGenPro delivers an optimized TCO (Total Cost of Ownership).

(1) The term Ultra-Low Maintenance means that one time addition of water is necessary during the lifetime of the product when operating under Saft's recommended conditions.

# Developed for Demanding Ultra-Low Maintenance Industrial Installations



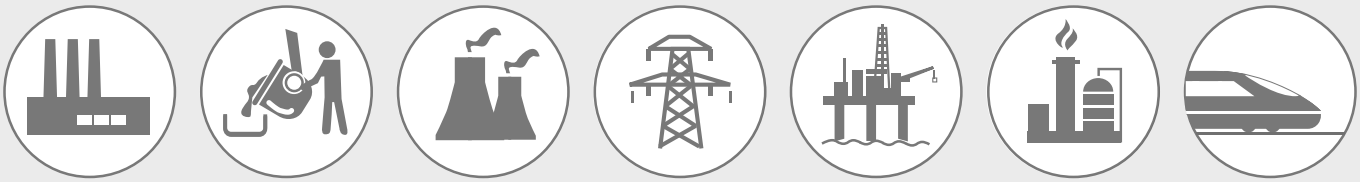
## Vital support for mission critical systems

ReGenPro Ni-Cd batteries are at the heart of power backup systems throughout the oil & gas exploration and production, utility and manufacturing industries. If mains power is lost, ReGenPro delivers the vital power to ensure the continuity of mission-critical loads, facilitate safe shutdown processes, bridge to standby power and safeguard computer data. Typical power backup applications include: Substations, Switchgears, UPS, Process control systems, Emergency lighting, Fire alarms and security systems.

## Reliable and safe operation even in most demanding operating conditions

ReGenPro provides complete peace of mind, whatever the application:

- Total reliability is based on a unique Ni-Cd electrochemistry technology.
- It enables a long service life of over 20 years at + 25°C (+ 77°F)
- Robust construction eliminates risk of sudden death failure
- ReGenPro delivers long life and outstanding performance in temperatures from - 20°C (-4°F) to + 40°C (+104°F) and tolerates from - 40°C (- 40°F) up to + 70°C (+ 158°F) for short durations.

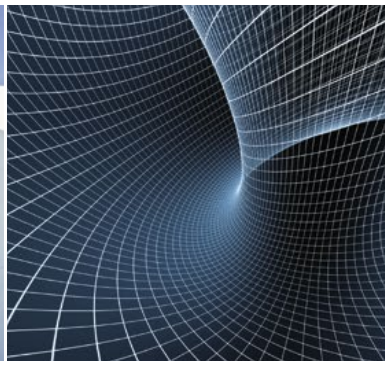


# Physical properties – ReGenPro Range

| Cell type | Capacity $C_5$ Ah | Cells dimension | | | Approx. Weight per cell | Electrolyte volume | IC connection bolt per cell | Terminals |
|---|---|---|---|---|---|---|---|---|
| | | Length (mm) | Width (mm) | Height (mm) | (Kg) | (Litres) | | |
| RGP-M 18 | 18 | 46 | 87 | 280 | 1.9 | 0.7 | 1 | M 10 |
| RGP-M 24 | 24 | 86 | 87 | 280 | 2.9 | 1.3 | 1 | M 10 |
| RGP-M 30 | 30 | | | | 3.2 | 1.2 | | |
| RGP-M 36 | 36 | | | | 3.3 | 1.1 | | |
| RGP-M 42 | 42 | | | | 3.4 | 1.0 | | |
| RGP-M 51 | 51 | 58 | 139 | 401 | 5.1 | 1.8 | 1 | M 20 |
| RGP-M 63 | 63 | | | | 5.4 | 1.4 | | |
| RGP-M 68 | 68 | | | | 5.3 | 1.6 | | |
| RGP-M 74 | 74 | 75 | 139 | 401 | 6.6 | 2.5 | 1 | M 20 |
| RGP-M 79 | 79 | | | | 6.8 | 2.3 | | |
| RGP-M 85 | 85 | | | | 6.7 | 2.2 | | |
| RGP-M 95 | 95 | | | | 6.9 | 2.1 | | |
| RGP-M 101 | 101 | | | | 7.1 | 2.0 | | |
| RGP-M 117 | 117 | 103 | 165 | 401 | 10.3 | 4.2 | 1 | M 20 |
| RGP-M 125 | 125 | | | | 10.6 | 4.0 | | |
| RGP-M 137 | 137 | | | | 10.8 | 3.8 | | |
| RGP-M 146 | 146 | | | | 11.0 | 3.7 | | |
| RGP-M 156 | 156 | | | | 11.3 | 3.6 | | |
| RGP-M 167 | 167 | | | | 11.4 | 3.5 | | |
| RGP-M 176 | 176 | 128 | 165 | 401 | 13.3 | 4.2 | 1 | M 20 |
| RGP-M 188 | 188 | | | | 13.6 | 4.0 | | |
| RGP-M 195 | 195 | | | | 13.8 | 4.0 | | |
| RGP-M 208 | 208 | | | | 14.1 | 3.9 | | |
| RGP-M 217 | 217 | 176 | 195 | 400 | 19.1 | 7.5 | 2 | M 10F |
| RGP-M 232 | 232 | | | | 19.5 | 7.5 | | |
| RGP-M 248 | 248 | | | | 19.7 | 7.3 | | |
| RGP-M 261 | 261 | | | | 20.0 | 7.1 | | |
| RGP-M 279 | 279 | | | | 20.2 | 6.8 | | |
| RGP-M 298 | 298 | | | | 20.7 | 6.8 | | |
| RGP-M 316 | 316 | | | | 20.4 | 6.2 | | |
| RGP-M 326 | 326 | | | | 20.9 | 6.1 | | |
| RGP-M 347 | 347 | | | | 20.9 | 5.7 | | |
| RGP-M 369 | 369 | | | | 21.9 | 6.3 | | |
| RGP-M 391 | 391 | 261 | 195 | 400 | 29.9 | 10.6 | 3 | M 10F |
| RGP-M 419 | 419 | | | | 30.2 | 10.2 | | |
| RGP-M 447 | 447 | | | | 30.3 | 9.7 | | |
| RGP-M 475 | 475 | | | | 30.6 | 9.3 | | |
| RGP-M 489 | 489 | | | | 31.2 | 9.1 | | |
| RGP-M 521 | 521 | | | | 32.7 | 9.7 | | |
| RGP-M 554 | 554 | | | | 33.1 | 9.3 | | |
| RGP-M 596 | 596 | 345 | 195 | 400 | 40.7 | 13.0 | 4 | M 10F |
| RGP-M 633 | 633 | | | | 40.7 | 12.4 | | |
| RGP-M 651 | 651 | | | | 41.5 | 12.2 | | |
| RGP-M 695 | 695 | | | | 41.8 | 11.5 | | |
| RGP-M 738 | 738 | | | | 42.1 | 10.8 | | |
| RGP-M 794 | 794 | | | | 43.0 | 9.9 | | |
| RGP-M 814 | 814 | 430 | 195 | 400 | 51.8 | 15.2 | 5 | M 10F |
| RGP-M 869 | 869 | | | | 53.3 | 14.3 | | |
| RGP-M 923 | 923 | | | | 52.5 | 13.5 | | |
| RGP-M 993 | 993 | | | | 53.8 | 12.4 | | |
| RGP-M 1055 | 1055 | | | | 54.3 | 11.5 | | |
| RGP-M 1107 | 1107 | 515 | 195 | 400 | 63.0 | 16.2 | 6 | M 10F |
| RGP-M 1191 | 1191 | | | | 64.5 | 14.9 | | |
| RGP-M 1266 | 1266 | | | | 65.1 | 13.8 | | |

# Features and Benefits

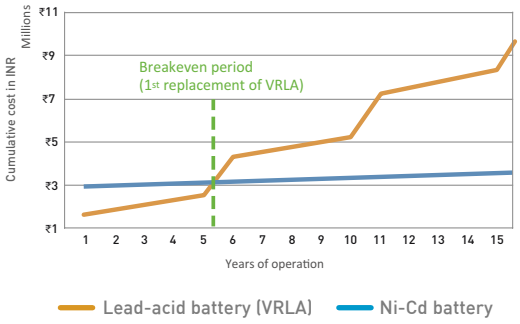




| Features | Benefits |
|---|---|
| Ultra-Low maintenance | One topping up during lifetime even at + 40°C |
| Fast-charging ability | Minimal down-time and maximum availability.<br>Over 90% can be recharged within 10 Hrs. through minimum 1.45 Vpc constant potential charging. |
| Long operational life of over 20 years at + 25°C | No need of controlled temp.<br>Even 16 Yrs. lifetime at + 35°C |
| No memory effect | No need for oversizing or periodic discharge |
| Proven Ni-Cd electrochemistry with no corrosion<br>Total Reliability | No risk of sudden death or open circuit like Lead-Acid batteries<br>Less site visits and maintenance needed.<br>Low Total Cost of Ownership (TCO) |
| Safe operation in a wide temperature range, - 20 to + 40°C<br>Tolerates extreme temperatures - 40°C to + 70°C for short duration | No need for temperature controlled environment avoiding A/C-related costs<br>Can be used in harsh environments |
| ReGenPro is the latest development of pocket plate Ni-Cd technology | Can be stored filled with electrolyte and charged for up to 2 years at + 30°C<br>Convenient project planning |
| Builds on the experience of existing valve-regulated Ni-Cd range | More Compact Design and Less weight cells for equivalent capacities |
| Higher gas recombination efficiency | Better gas recombination efficiency.<br>Very low gas emission, less ventilation requirement |
| New Compact-Rack design | Compact installations. Less battery room space required. |

## Total Cost of Ownership

Total Cost of Ownership (TCO) for typical transmission application at 35°C




## New Compact Rack

# ReGenPro batteries are designed in full compliance with the highest quality, safety and environmental standards

## ReGenPro: Easy to Operate and Install

### Facilitates ease of Handling, Installation & Operation:

ReGenPro batteries make transportation installation and operation fast and easy.

- Batteries are only delivered filled with electrolyte and in electrically charged condition.
- Storage for up to 2 years in normal conditions is possible at + 30°C, if stored under covered shade and not exposed to direct sunlight.
- ReGenPro Ni-Cd Cells are more compact compared to previous valve regulated Ni-Cd cells and higher volumetric energy density.
- Increased energy density with better utilization of active-mass and reduced non active component weight. Results, light weight cells for equivalent capacity.
- New ReGenPro batteries can be delivered with non-step multi-row compact battery rack design, having less installation footprint and volume.

### Charging Parameters:

- Boost Voltage: Max. 1.45V per cell
- Boost Current limit: 0.1C5 Amps
- Float Voltage: 1.40V – 1.42V per cell

### Electrical characteristics:

- Certified IEC 62259 - Secondary cells and batteries containing alkaline or other non-acid electrolytes - Nickel-cadmium prismatic secondary single cells with partial gas recombination.
- Complies with IEC 60623 - Secondary cells and batteries containing alkaline or other non-acid electrolytes - Vented nickel-cadmium prismatic rechargeable single cells.
- Complies to IS 10918-2014 – Bureau of Indian Standards - Specification for vented Nickel-Cadmium batteries

### Safety Compliance:

- Complies with EN 50272-2/ IEC 62485-2 - Safety requirements for secondary batteries and battery installations - Part 2: Stationary batteries - The protective covers for terminals and connectors are compliant with IP2X level protection against electrical shocks according to safety standard.

### Quality:

- ISO 9001:2015
- world class continuous programme

### Environment & Recycling:

- recyclable

Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47
Россия (495)268-04-70
Казахстан (772)734-952-31

**www.sft.nt-rt.ru | | sfq@nt-rt.ru**