

LAMPIRAN

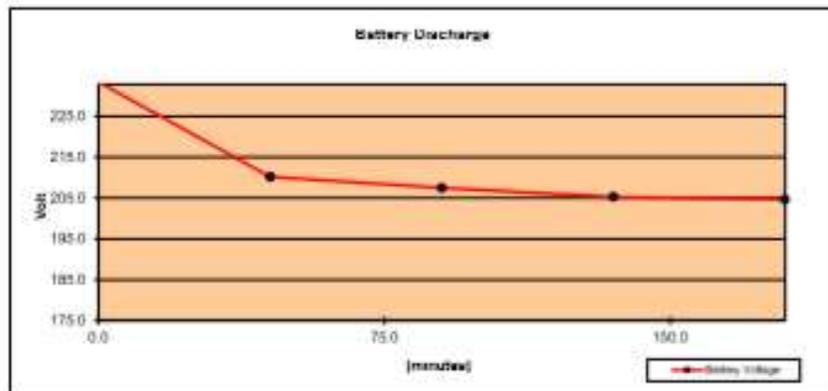


BATTERY DISCHARGE RECORD

| | | | |
|----------------------------|------------------|----------------|---------------|
| Battery Type | ALCAD HC 90P | Client Tag No. | Bat-UPS-SS723 |
| Discharge Date | : 25 May 2025 | | |
| Tag No. | : Bat-UPS-SS723 | | |
| Battery Type | : ALCAD HC 90P | | |
| Capacity | : 90 Ah | | |
| Manufacture date | : 22/06 | | |
| Final Battery Voltage | : 1,00 Volt/Cell | | |
| Total Cell/Block | : 175 Cell 175 | | Block |
| Battery End Voltage | : 175 Vdc | | |
| Constant Current Discharge | : 29,6 Adc | | |
| Constant Power Discharge | : N/A Watt | | |

| No. | Clock [hh:mm] | Time [minutes] | Battery Voltage [V] | Discharge Current [Adc] | Room Temperature [°C] |
|-----|---------------|----------------|---------------------|-------------------------|-----------------------|
| 1 | 15:00 | 0 | 233,4 | 29,6 | 25 |
| 2 | 15:45 | 45 | 210,2 | 29,6 | 25 |
| 3 | 16:30 | 90 | 207,5 | 29,6 | 25 |
| 4 | 17:15 | 135 | 206,3 | 29,6 | 25 |
| 5 | 18:00 | 180 | 204,7 | 29,6 | 25 |

Note: 1. Battery Bank can perform in 180 Minutes for target 180 Minutes in 29,6 A Discharge Test.



Observe Safety Precautions

GUTOR **BATTERY DISCHARGE RECORD**

Battery Type: ALCAO HC 90P Client Tag No.: Batt-UPS-S8723

| Time | 15:00 | 15:45 | 16:30 | 17:15 | 18:00 | Date | 25 May 2025 | Temperature Room | 25.0 | | |
|------|-----------|-----------|-----------|-----------|-----------|-------------------|-------------|------------------|-----------|-----------|-----------|
| Vdc | 233.4 | 210.2 | 207.5 | 205.3 | 204.7 | Total Cells/Block | 175 | Constant Current | 25.0 | | |
| Idc | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 | Min. Cells | 2200 | Constant Power | N/A | | |
| No | 1 | 2 | 3 | 4 | 5 | No. | 1 | 2 | 3 | 4 | 5 |
| | V / block | | V / block | V / block | V / block | V / block | V / block |
| 1 | 1.405 | 1.209 | 1.190 | 1.178 | 1.173 | 51 | 1.412 | 1.207 | 1.189 | 1.179 | 1.171 |
| 2 | 1.374 | 1.208 | 1.188 | 1.175 | 1.172 | 52 | 1.404 | 1.206 | 1.188 | 1.177 | 1.173 |
| 3 | 1.402 | 1.209 | 1.189 | 1.178 | 1.173 | 53 | 1.417 | 1.207 | 1.189 | 1.179 | 1.172 |
| 4 | 1.360 | 1.209 | 1.191 | 1.179 | 1.173 | 54 | 1.407 | 1.206 | 1.188 | 1.177 | 1.172 |
| 5 | 1.417 | 1.208 | 1.190 | 1.178 | 1.173 | 55 | 1.413 | 1.206 | 1.188 | 1.177 | 1.172 |
| 6 | 1.359 | 1.208 | 1.189 | 1.177 | 1.171 | 56 | 1.394 | 1.207 | 1.189 | 1.178 | 1.172 |
| 7 | 1.420 | 1.209 | 1.190 | 1.178 | 1.173 | 57 | 1.396 | 1.207 | 1.189 | 1.177 | 1.172 |
| 8 | 1.378 | 1.208 | 1.190 | 1.178 | 1.173 | 58 | 1.407 | 1.206 | 1.188 | 1.177 | 1.172 |
| 9 | 1.145 | 1.209 | 1.189 | 1.177 | 1.172 | 59 | 1.412 | 1.206 | 1.188 | 1.177 | 1.172 |
| 10 | 1.375 | 1.208 | 1.190 | 1.178 | 1.173 | 60 | 1.395 | 1.206 | 1.188 | 1.177 | 1.172 |
| 11 | 1.382 | 1.208 | 1.189 | 1.177 | 1.175 | 61 | 1.418 | 1.207 | 1.189 | 1.177 | 1.172 |
| 12 | 1.381 | 1.208 | 1.189 | 1.177 | 1.172 | 62 | 1.398 | 1.206 | 1.189 | 1.177 | 1.172 |
| 13 | 1.412 | 1.209 | 1.189 | 1.178 | 1.173 | 63 | 1.407 | 1.207 | 1.189 | 1.177 | 1.172 |
| 14 | 1.375 | 1.208 | 1.189 | 1.177 | 1.172 | 64 | 1.405 | 1.207 | 1.189 | 1.177 | 1.172 |
| 15 | 1.388 | 1.208 | 1.189 | 1.177 | 1.172 | 65 | 1.394 | 1.207 | 1.189 | 1.177 | 1.172 |
| 16 | 1.385 | 1.208 | 1.190 | 1.177 | 1.172 | 66 | 1.404 | 1.207 | 1.188 | 1.177 | 1.172 |
| 17 | 1.421 | 1.208 | 1.190 | 1.177 | 1.172 | 67 | 1.418 | 1.206 | 1.188 | 1.177 | 1.172 |
| 18 | 1.414 | 1.208 | 1.189 | 1.177 | 1.172 | 68 | 1.401 | 1.207 | 1.188 | 1.177 | 1.174 |
| 19 | 1.391 | 1.209 | 1.189 | 1.177 | 1.172 | 69 | 1.410 | 1.207 | 1.189 | 1.179 | 1.172 |
| 20 | 1.390 | 1.210 | 1.191 | 1.179 | 1.173 | 70 | 1.385 | 1.206 | 1.188 | 1.177 | 1.174 |
| 21 | 1.401 | 1.210 | 1.191 | 1.179 | 1.175 | 71 | 1.400 | 1.206 | 1.189 | 1.178 | 1.172 |
| 22 | 1.398 | 1.208 | 1.190 | 1.178 | 1.173 | 72 | 1.389 | 1.206 | 1.188 | 1.177 | 1.172 |
| 23 | 1.422 | 1.208 | 1.189 | 1.177 | 1.172 | 73 | 1.393 | 1.206 | 1.188 | 1.177 | 1.174 |
| 24 | 1.394 | 1.208 | 1.189 | 1.177 | 1.172 | 74 | 1.354 | 1.206 | 1.189 | 1.179 | 1.174 |
| 25 | 1.413 | 1.208 | 1.189 | 1.178 | 1.172 | 75 | 1.395 | 1.207 | 1.189 | 1.179 | 1.174 |
| 26 | 1.347 | 1.208 | 1.190 | 1.177 | 1.172 | 76 | 1.370 | 1.206 | 1.189 | 1.179 | 1.175 |
| 27 | 1.427 | 1.208 | 1.188 | 1.177 | 1.172 | 77 | 1.381 | 1.205 | 1.188 | 1.178 | 1.175 |
| 28 | 1.354 | 1.208 | 1.189 | 1.177 | 1.172 | 78 | 1.397 | 1.205 | 1.189 | 1.180 | 1.172 |
| 29 | 1.405 | 1.208 | 1.188 | 1.177 | 1.172 | 79 | 1.405 | 1.205 | 1.188 | 1.177 | 1.174 |
| 30 | 1.415 | 1.208 | 1.189 | 1.177 | 1.172 | 80 | 1.404 | 1.205 | 1.189 | 1.179 | 1.174 |
| 31 | 1.420 | 1.208 | 1.189 | 1.177 | 1.172 | 81 | 1.399 | 1.205 | 1.189 | 1.179 | 1.172 |
| 32 | 1.390 | 1.208 | 1.189 | 1.177 | 1.172 | 82 | 1.385 | 1.205 | 1.188 | 1.177 | 1.174 |
| 33 | 1.419 | 1.207 | 1.189 | 1.178 | 1.172 | 83 | 1.401 | 1.205 | 1.189 | 1.178 | 1.171 |
| 34 | 1.405 | 1.207 | 1.189 | 1.177 | 1.174 | 84 | 1.414 | 1.205 | 1.188 | 1.177 | 1.172 |
| 35 | 1.415 | 1.208 | 1.190 | 1.179 | 1.172 | 85 | 1.392 | 1.206 | 1.188 | 1.177 | 1.175 |
| 36 | 1.400 | 1.207 | 1.189 | 1.177 | 1.174 | 86 | 1.403 | 1.206 | 1.189 | 1.178 | 1.171 |
| 37 | 1.418 | 1.208 | 1.190 | 1.179 | 1.172 | 87 | 1.401 | 1.205 | 1.188 | 1.177 | 1.171 |
| 38 | 1.401 | 1.207 | 1.188 | 1.177 | 1.174 | 88 | 1.418 | 1.204 | 1.187 | 1.176 | 1.171 |
| 39 | 1.391 | 1.208 | 1.190 | 1.179 | 1.172 | 89 | 1.401 | 1.204 | 1.187 | 1.176 | 1.175 |
| 40 | 1.399 | 1.207 | 1.188 | 1.177 | 1.174 | 90 | 1.408 | 1.204 | 1.188 | 1.178 | 1.171 |
| 41 | 1.415 | 1.208 | 1.190 | 1.179 | 1.174 | 91 | 1.400 | 1.204 | 1.187 | 1.177 | 1.171 |
| 42 | 1.415 | 1.208 | 1.190 | 1.179 | 1.174 | 92 | 1.408 | 1.204 | 1.187 | 1.177 | 1.171 |
| 43 | 1.393 | 1.206 | 1.190 | 1.179 | 1.172 | 93 | 1.424 | 1.204 | 1.187 | 1.177 | 1.171 |
| 44 | 1.410 | 1.206 | 1.189 | 1.177 | 1.172 | 94 | 1.398 | 1.204 | 1.187 | 1.177 | 1.171 |
| 45 | 1.393 | 1.207 | 1.189 | 1.177 | 1.172 | 95 | 1.411 | 1.204 | 1.187 | 1.177 | 1.171 |
| 46 | 1.405 | 1.207 | 1.188 | 1.177 | 1.172 | 96 | 1.42 | 1.204 | 1.187 | 1.177 | 1.171 |
| 47 | 1.394 | 1.207 | 1.189 | 1.179 | 1.174 | 97 | 1.399 | 1.204 | 1.187 | 1.177 | 1.171 |
| 48 | 1.394 | 1.207 | 1.189 | 1.177 | 1.172 | 98 | 1.407 | 1.204 | 1.187 | 1.176 | 1.171 |
| 49 | 1.397 | 1.207 | 1.189 | 1.178 | 1.174 | 99 | 1.437 | 1.203 | 1.188 | 1.177 | 1.171 |
| 50 | 1.400 | 1.207 | 1.190 | 1.179 | 1.174 | 100 | 1.413 | 1.204 | 1.187 | 1.177 | 1.171 |

Observe Safety Precautions



BATTERY DISCHARGE RECORD

Battery Type

ALCAD HC 90P

Client Tag No.

Batt-UP6-S8723

| No. | 1 | 2 | 3 | 4 | 5 | No. | 1 | 2 | 3 | 4 | 5 |
|-----|-----------|-----------|-----------|-----------|-----------|-----|-----------|-----------|-----------|-----------|-----------|
| | V / block | | V / block |
| 101 | 1,399 | 1,294 | 1,389 | 1,177 | 1,011 | 191 | 1,420 | 1,203 | 1,388 | 1,177 | 1,171 |
| 102 | 1,420 | 1,205 | 1,389 | 1,178 | 1,011 | 192 | 1,433 | 1,202 | 1,388 | 1,176 | 1,170 |
| 103 | 1,413 | 1,204 | 1,389 | 1,178 | 1,011 | 193 | 1,408 | 1,203 | 1,388 | 1,176 | 1,170 |
| 104 | 1,390 | 1,204 | 1,387 | 1,178 | 1,011 | 194 | 1,444 | 1,203 | 1,387 | 1,176 | 1,172 |
| 105 | 1,412 | 1,204 | 1,387 | 1,178 | 1,011 | 195 | 1,398 | 1,203 | 1,387 | 1,175 | 1,173 |
| 106 | 1,385 | 1,205 | 1,387 | 1,177 | 1,012 | 196 | 1,409 | 1,202 | 1,388 | 1,178 | 1,189 |
| 107 | 1,390 | 1,205 | 1,388 | 1,177 | 1,011 | 197 | 1,418 | 1,203 | 1,388 | 1,178 | 1,173 |
| 108 | 1,417 | 1,205 | 1,387 | 1,178 | 1,011 | 198 | 1,415 | 1,204 | 1,388 | 1,178 | 1,173 |
| 109 | 1,428 | 1,205 | 1,388 | 1,177 | 1,011 | 199 | 1,411 | 1,201 | 1,388 | 1,178 | 1,173 |
| 110 | 1,420 | 1,204 | 1,387 | 1,178 | 1,011 | 200 | 1,419 | 1,204 | 1,388 | 1,178 | 1,173 |
| 111 | 1,418 | 1,204 | 1,388 | 1,177 | 1,011 | 201 | 1,408 | 1,203 | 1,388 | 1,178 | 1,173 |
| 112 | 1,432 | 1,204 | 1,388 | 1,178 | 1,012 | 202 | 1,421 | 1,203 | 1,388 | 1,177 | 1,173 |
| 113 | 1,393 | 1,203 | 1,388 | 1,178 | 1,012 | 203 | 1,404 | 1,203 | 1,388 | 1,178 | 1,173 |
| 114 | 1,403 | 1,204 | 1,388 | 1,178 | 1,011 | 204 | 1,389 | 1,203 | 1,388 | 1,178 | 1,170 |
| 115 | 1,410 | 1,204 | 1,388 | 1,177 | 1,011 | 205 | 1,389 | 1,203 | 1,388 | 1,178 | 1,173 |
| 116 | 1,421 | 1,203 | 1,387 | 1,178 | 1,011 | 206 | 1,379 | 1,202 | 1,388 | 1,178 | 1,172 |
| 117 | 1,416 | 1,203 | 1,387 | 1,178 | 1,011 | 207 | 1,391 | 1,203 | 1,387 | 1,178 | 1,170 |
| 118 | 1,438 | 1,203 | 1,387 | 1,178 | 1,010 | 208 | 1,386 | 1,203 | 1,387 | 1,177 | 1,172 |
| 119 | 1,425 | 1,204 | 1,387 | 1,178 | 1,011 | 209 | 1,415 | 1,203 | 1,388 | 1,178 | 1,173 |
| 120 | 1,416 | 1,203 | 1,388 | 1,178 | 1,010 | 210 | 1,402 | 1,202 | 1,387 | 1,177 | 1,173 |
| 121 | 1,428 | 1,203 | 1,387 | 1,178 | 1,011 | 211 | 1,418 | 1,203 | 1,387 | 1,178 | 1,170 |
| 122 | 1,394 | 1,203 | 1,387 | 1,177 | 1,010 | 212 | 1,407 | 1,203 | 1,388 | 1,178 | 1,171 |
| 123 | 1,411 | 1,203 | 1,388 | 1,178 | 1,009 | 213 | 1,427 | 1,201 | 1,388 | 1,178 | 1,189 |
| 124 | 1,392 | 1,199 | 1,384 | 1,175 | 1,172 | 214 | 1,422 | 1,202 | 1,387 | 1,177 | 1,170 |
| 125 | 1,395 | 1,203 | 1,387 | 1,177 | 1,170 | 215 | 1,415 | 1,201 | 1,388 | 1,178 | 1,189 |
| 126 | 1,428 | 1,203 | 1,387 | 1,178 | 1,171 | 216 | | | | | |
| 127 | 1,394 | 1,203 | 1,387 | 1,177 | 1,170 | 217 | | | | | |
| 128 | 1,412 | 1,203 | 1,387 | 1,178 | 1,173 | 218 | | | | | |
| 129 | 1,409 | 1,202 | 1,388 | 1,178 | 1,171 | 219 | | | | | |
| 130 | 1,403 | 1,204 | 1,388 | 1,178 | 1,173 | 220 | | | | | |
| 131 | 1,425 | 1,204 | 1,388 | 1,178 | 1,173 | 221 | | | | | |
| 132 | 1,410 | 1,204 | 1,388 | 1,178 | 1,173 | 222 | | | | | |
| 133 | 1,395 | 1,203 | 1,388 | 1,178 | 1,173 | 223 | | | | | |
| 134 | 1,399 | 1,203 | 1,388 | 1,178 | 1,170 | 224 | | | | | |
| 135 | 1,407 | 1,203 | 1,388 | 1,178 | 1,171 | 225 | | | | | |
| 136 | 1,412 | 1,202 | 1,387 | 1,178 | 1,171 | 226 | | | | | |
| 137 | 1,395 | 1,202 | 1,387 | 1,178 | 1,173 | 227 | | | | | |
| 138 | 1,403 | 1,202 | 1,387 | 1,177 | 1,173 | 228 | | | | | |
| 139 | 1,428 | 1,202 | 1,387 | 1,178 | 1,173 | 229 | | | | | |
| 140 | 1,395 | 1,203 | 1,388 | 1,178 | 1,170 | 230 | | | | | |
| 141 | 1,390 | 1,203 | 1,388 | 1,178 | 1,173 | 231 | | | | | |
| 142 | 1,389 | 1,202 | 1,388 | 1,178 | 1,170 | 232 | | | | | |
| 143 | 1,420 | 1,203 | 1,388 | 1,178 | 1,170 | 233 | | | | | |
| 144 | 1,407 | 1,202 | 1,388 | 1,178 | 1,173 | 234 | | | | | |
| 145 | 1,403 | 1,203 | 1,388 | 1,178 | 1,173 | 235 | | | | | |
| 146 | 1,381 | 1,203 | 1,388 | 1,178 | 1,173 | 236 | | | | | |
| 147 | 1,376 | 1,204 | 1,388 | 1,178 | 1,172 | 237 | | | | | |
| 148 | 1,396 | 1,202 | 1,389 | 1,178 | 1,173 | 238 | | | | | |
| 149 | 1,408 | 1,203 | 1,387 | 1,178 | 1,170 | 239 | | | | | |
| 150 | 1,412 | 1,203 | 1,388 | 1,178 | 1,170 | 240 | | | | | |

Observe Safety Precautions

Life Extension & Modernization Service

Dear Customer,

We at Gutor understand that each customer is unique, and it is our responsibility as a supplier to support you throughout the 20-year design life of your system. We continue to develop our service portfolio to provide you with the best Lifecycle Management options for you to easily and efficiently manage your assets.

Gutor's Life Extension & Modernization service provides you with an alternative to system replacement as your asset approaches its 20-year design life. This program provides the opportunity to:

- Extend the service life of your system +10 years
- Ensure spare parts availability for +10 years
- Leverage the latest Gutor technologies

Service Package Overview

| | | | |
|---|--|--|------------------------------|
| Detailed System Assessment performed by Gutor Certified FSE | Customized Extension & Modernization recommendation created for your site and assets | Extension and Modernization Service performed by Gutor Certified FSE | Updated drawings and manuals |
|---|--|--|------------------------------|

Key Benefits

- ✓ Cost Savings
- ✓ Capture costs in OPEX vs CAPEX
- ✓ Seamless implementation with limited shutdown required
- ✓ Leverage Gutor digital solutions proven to reduce chances of downtime & optimize operations (options)
- ✓ Upgrade to Battery Management System (G.BMS) which actively monitors the health of your batteries and enables predictive analysis (options)



For more details please contact your local Gutor Service Sales Representative or reach us via bellechoomeol.choo@se.com for more information.

Kind Regards,

Belle Choo
Senior Service Sales Engineer
Gutor Electronic Asia Pacific Sdn. Bhd.

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BIODATA PENULIS



Penulis dilahirkan di Madiun 03 Oktober 1999, merupakan anak kedua dari dua bersaudara. Penulis telah menempuh pendidikan formal yaitu di SDN Pilang Bango, SMPN 8 Madiun, SMAN 1 Nglames, D3 Teknik Listrik Politeknik Negeri Madiun. Setelah lulus dari jenjang D3 penulis mendaftar dan diterima di Jurusan Teknik Elektro FT-UMS pada tahun 2024 dan terdaftar dengan NIM 20241330021