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| **Capess** |  |
|  | **capess3-1** |  |
| **FEATURES** |  |  |
| \* EM series battery cells\* Safest technology\* Ultra long cycle life\* Extreme temperature\* Easy to install\* Rarely maintenance |  |  |
| **PART NUMBER** | **GTEM-48V7500-E** |
| Energy storage | 7.5kWh |
| Capacity | 147Ah |
| Nominal Voltage | 51.8V/DC |
| Maximum Charge Voltage | 58V/DC |
| Discharge Cut-off Voltage | 42V/DC |
| Internal Configuration | 14S7P/EM21 |
| ESR/AC @1KHz 50% SOC | <10mΩ |
| Max. Continuous Charge Current | 100A |
| Max. Continuous Discharge Current | 100A |
| Cells Self-discharge Rate | 2% per month |
| Round Trip Efficiency\*1 | 97.8% |
| Projected cycle life(25℃) | 20000 times |
| Projected life(25℃) | 15 years |
| Recommended Depth of Discharge | ≤90% |
| Maximum Depth of Discharge | 100% |
| Cooling Method | Natural |
| Shell Material | Metal & ABS plastic |
| Parallel Connection | Up to 16 sets |
| Compatible Protocol | CAN,RS485 |
| Monitoring Data | System voltage,current,temperature,SOC,SOH,cycle,cell’s voltage |

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| **ENVIRONMENTAL SPECIFICATIONS** |
| Ingress Rating | Indoor IP20 |
| Operating Humidity | 0~90% RH Non-condensing |
| Charge Temperature | 0℃~+55℃ |
| Discharge Temperature | -20℃~+60℃ |
| Storage Conditions | SOC>30%,-20℃~+40℃,25% ~ 95%RH,One full charge needed per two months |
| Transport Conditions | 50% SOC,-20℃~+40℃ |
| Maximum Elevation | 3000m (9843ft) |

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| **COMPLIANCE INFORMATION** |
| IEC\*2 | IEC62619 |
| Italy | CEI0-21:2022 |
| CE | EN 62133:2013, EN 55032:2015+AC:2016, EN 55035:2017, EN 61000-3-2:2014,  |
| Transport | UN38.3,MSDS |
| Environmental | RoHS |

Remark:\*1 (1)At room temperature 25℃, charge-discharge at 100A.(2)Limited charge at 100A for resident energy storage, (3)At the beginning of life. \*2on testing,certificate will come soon.

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| **MECHANICAL SPECIFICATIONS** |
| Part Number | **GTEM-48V7500-E** |
| Weight | 50Kg |
| Dimensions(WxDxH) | 470x520x170(mm) |
| Mount Options | On rack cabinet |
| Dimensions and weight differ slightly for each batch. Contact Green Tech for additional information. |
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| **CHARGING-DISCHARGING CURVE** |

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**Note：**If the charger needs to set the floating charge voltage, it is recommended to set the U Float value to 57V.

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| **Bluetooth Display Function** |

This Bluetooth APP can be operated by both Android and IOS. It establish a Bluetooth connection between your smart phone and the battery, usages includes below: managing the battery pack, gathering the data and

displaying them, conducting modifications on settings.

Bluetooth APP can achieve below functions:

* Display the basic data of battery pack
* Modifying the communication between BMS and inverter
* Setting Alert Parameters and Switch on/off
* Support Single and Parallel operation
* Shift between Chinese and English

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