



# PRODUCT DATA SHEET

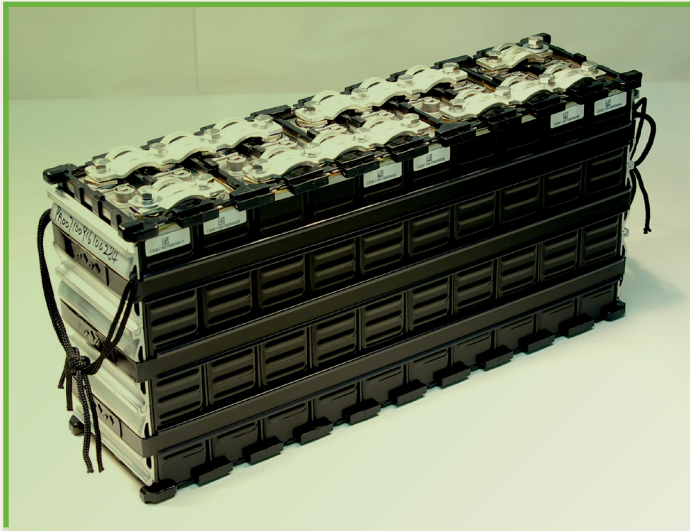
EVB TECHNOLOGY (HK) LTD. Member Gold Peak Group

scan QR code for product manual in PDF

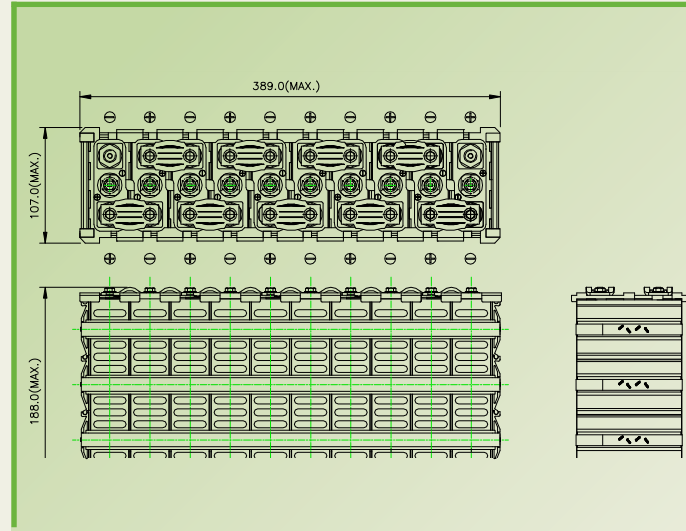
or visit [www.evbtech.com/resources](http://www.evbtech.com/resources)



## 10GP100EVH



## DIAGRAM



10GP100EVH — DIAGRAM REF #

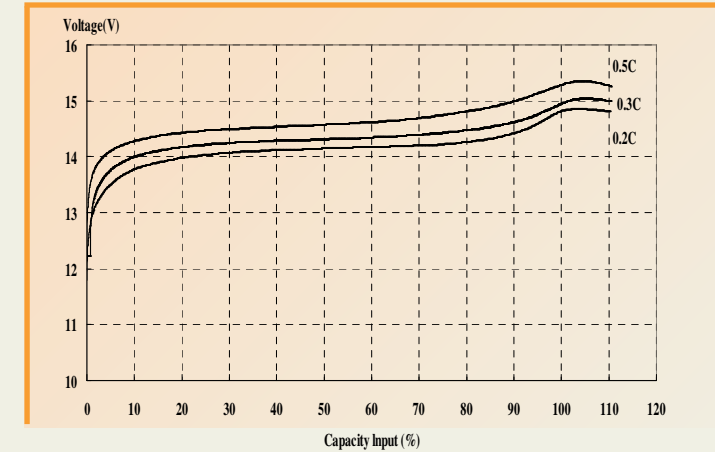
## TECHNICAL SPECIFICATIONS

<b>Type</b>	Rechargeable Nickel Metal Hydride Prismatic Batteries
<b>Nominal dimension</b>	H = 188 mm L = 389 mm W = 107 mm
<b>Nominal voltage</b>	12 V
<b>Capacity</b>	98Ah at 50A (0.5C) discharge to 10V/Module at 20°C
<b>Specific energy</b>	56Wh/kg at 0.5C discharge
<b>Specific power</b>	136 W/kg with 80% SOC at 3C 30sec.
<b>Energy density</b>	150Wh/L at 0.5C discharge
<b>Power density</b>	366W/L with 80% SOC at 3C 30sec.
<b>Charging current</b>	20A (0.2C) to 50A (0.5C) recommended
<b>Charging termination</b>	-ΔV : 0mV/cell to 10mV/cell TCO: 45°C Timer: 100% nominal capacity input

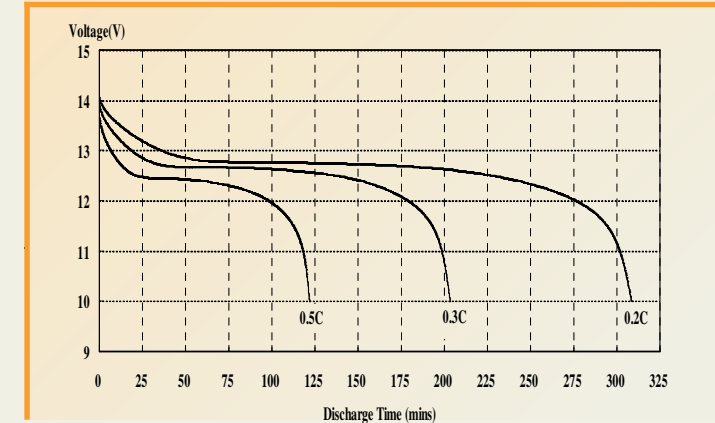
note: The above 3 charge termination controls must be used concurrently

<b>Max. charging temp.</b>	Cell temperature must not exceed 45°C
<b>Max. charging current</b>	100A (1C) continuous note: Consult EVB for high current fast charge.
<b>Max. discharge current</b>	200A (2C) continuous 300A (3C) pulse for 5s
<b>Service life</b>	>1500 cycles (80%DOD at 1C)
<b>Weight</b>	~21 kg
<b>Internal resistance</b>	<10mΩ
<b>Ambient temperature Range</b>	Charge: 0 to 45°C (conditionally) Discharge: -20°C to 50°C (conditionally) Storage: -20°C to 35°C
<b>ISO document #</b>	ERS0302 Rev. 02/0912
<b>Safety certificate</b>	UN 38.3, UL

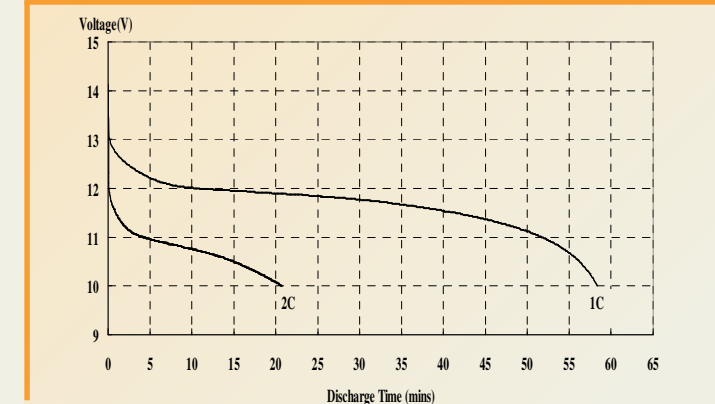
## CHARGING CHARACTERISTICS AT 20°C



## LOW RATE DISCHARGE AT 20°C



## HIGH RATE DISCHARGE AT 20°C



The information (subject to change without prior notice) contained in this document is for reference only and should not be used as a basis for product guarantee or warranty. For applications other than those described here, please consult your nearest EVB Technology Sales and Marketing Office or Authorized Distributors.

Manufacturer reserves the right to alter or amend the design, model and specification without prior notice. Copyright © EVB Technology (HK) Ltd. — All rights reserved