



PRODUCT DATA SHEET

EVB TECHNOLOGY (HK) LTD. Member Gold Peak Group

scan QR code for product manual in PDF

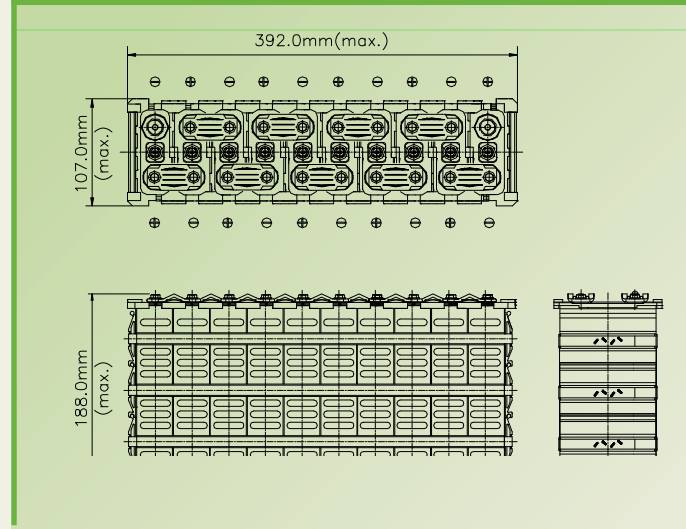
or visit www.evbtech.com/resources



10GP80EVS

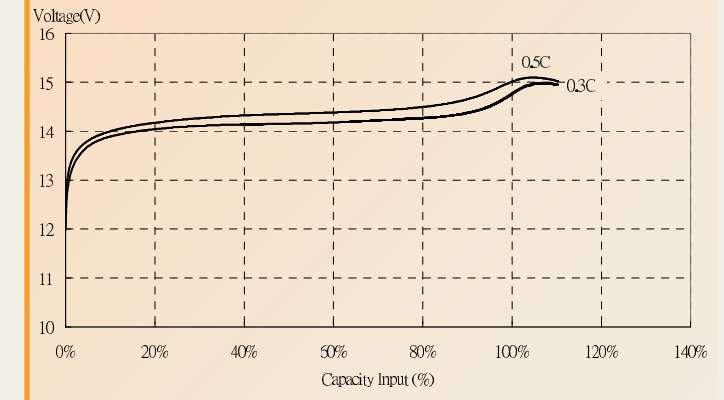


DIAGRAM

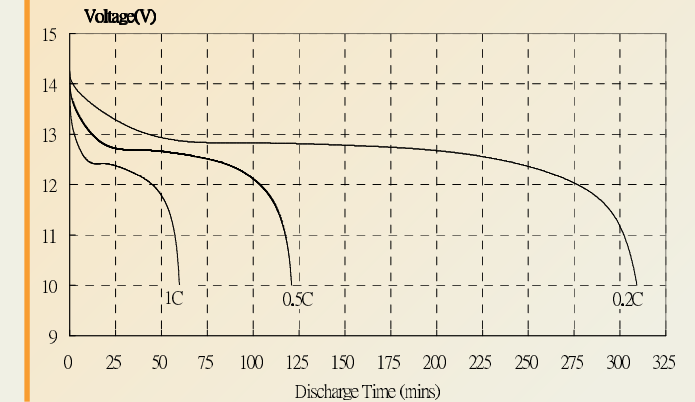


10GP80EVS — DIAGRAM REF #

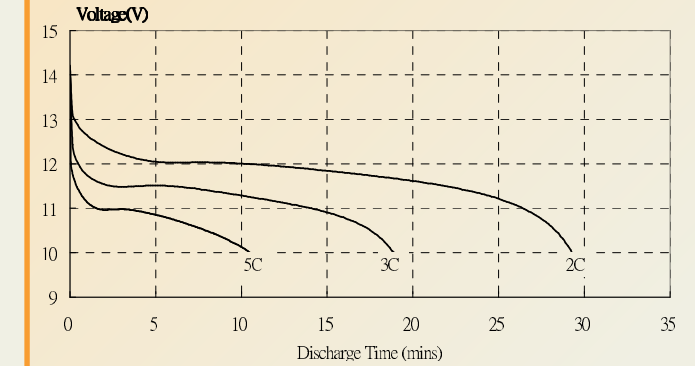
CHARGING CHARACTERISTICS AT 20°C



LOW RATE DISCHARGE AT 20°C



HIGH RATE DISCHARGE AT 20°C



TECHNICAL SPECIFICATIONS

Type	Rechargeable Nickel Metal Hydride Prismatic Batteries
Nominal dimension	H = 188mm L = 392mm W = 107mm
Nominal voltage	12 V
Capacity	78Ah at 40A (0.5C) discharge to 10V/Module at 20°C
Specific energy	45Wh/kg at 0.5C discharge
Specific power	213W/kg with 80% SOC at 5C 30 sec.
Energy density	14Wh/L at 0.5C discharge
Power density	546W/L with 80% SOC at 5C 30sec.
Charging current	16A (0.2C) to 40A (0.5C) recommended
Charging termination	-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

Max. charging temp.	Cell temperature must not exceed 45°C
Max. charging current	80A (1C) continuous note: Consult EVB for high current fast charge.
Max. discharge current	160A (2C) continuous 400A (5C) pulse for 5s
Service life	>1500 cycles (80%DOD at 1C)
Weight	21 kg
Internal resistance	<10mΩ
Ambient temperature Range	Charge: 0 to 45°C (conditionally) Discharge: -20°C to 50°C (conditionally) Storage: -20°C to 35°C
ISO document #	ERS0219 Rev. 02/0912
Safety certificate	UN 38.3, UL

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