

# GE Durathon™ Batteries

## NaMx –Battery System for Telecom Applications

The Telecom family of batteries is specifically design for use in demanding applications, particularly for those in high ambient temperature applications with demanding cycle requirements. The integral Battery Management System provides thermal management, electrical protection and diagnostic functions. The telecom family of NaMx product shall be CE mark compliant.

Technical Data	Units	Type A1	Type A2	Type A3
<b>Operating Voltages</b>				
Fast Recharge	V		-57	
Nominal Recharge	V		-56.1	
Open Circuit	V		-54.2	
Discharge Termination	V		-37.8	
<b>Max Constant Current Discharge</b> <sup>1</sup>	Ah	228	456	152
+6-hour Discharge rate				
<b>Stored Energy</b>	kWh	12.4	24.8	8.2

General Data	Units	Type A1	Type A2	Type A3
<b>Ambient Conditions</b> <sup>2</sup>				
Temperature	°C		-40 ~ 65 (<95% RH)	
Altitude	m		3000	
<b>Warm-Up Time</b>	hours		16 (from 25°C)	
<b>Time to Recharge (Partial)</b> <sup>3</sup>				
80% of rated amp-hours	hours		4.0	
60% of rated amp-hours	hours		2.4	
40% of rated amp-hours	hours		1.8	
20% of rated amp-hours	hours		1.0	
<b>Time to Recharge (Full)</b>				
Top of Charge from 80% DoD	hours		7.5	
<b>Max Energy Consumption</b>				
Float Service	kWh/day	2.1	4	1.6
Continuous duty <sup>4</sup>	kWh/day	~0.2	~0.4	~0.1
<b>Max Heater Power</b>	W	900	1700	700
<b>Net Efficiency</b> <sup>5</sup>	%		Discharge >92%, Recharge >97%	
<b>Recommended Recharge Current</b>	A	75	150	50
<b>Life</b>				
Cycle Life	cycles		>2500	
Float Service Life	years		15	
<b>Dimensions:</b>				
Height x Width x Depth	mm	320 x 530 x 445	320 x 530 x 870	320 x 400 x 445
Reference Rack Size	in	23	Custom	19
<b>Weight</b>				
Total	kg	134	260	95
LRU (Lower Replaceable Units)	kg	121	121 (TBD)	80
<b>Interconnect:</b>				
Battery Terminals			Anderson, two pole	
Communication			CAN or RS485	
Alarm Outputs			TBD	
Status Lights			3(LED's on front)	
<b>Ingress Protection</b>	IEC 60529		IP 20	
<b>Certification (In Process)</b>		Safety: IEC 60950-1 & 60950- 22, EN 50272, LVD: 2006/95/EC, RoHS: 2002/95/EC, EMC: 2004/108/EC, ETSI EN 300 132, EN 300 386		

1 To 100% discharge, as delivered at Beginning-of-Life.

2 +5°C to 55°C no performance degradation. -40°C to +5°C & 55°C to +60°C reduced performance. +60°C to +65°C non-destructive with ability to automatically reconnect.

3 Times specified are to achieve a partially recharged state when exposed to the Nominal Recharge Voltage and sufficient current.

4 When exposed to continuous discharge and recharge cycling under stated limits. Discharge rate dependent.

5 Efficiency calculated assuming a C/6 discharge rate & C/4 recharge rate

The information provided herein should be deemed as estimate values



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