Performance & Durability Parameters

STIHL PS 3000.0

This document provides performance and durability parameters and an explanation of the conditions used to derive them, as required by EU regulation 2023/1542 concerning batteries and waste batteries, Article 10.

Parameters on expected life-time prognosis is based on average customer behaviour. Actual usage, storage and environmental conditions will influence the life-time. The life time prediction does not imply any warranty claims.

Part A: Parameters related to electrochemical performance and durability with definitions

Rated capacity [Ah]	**Capacity fade [%]**	**Power [W]**	**Power fade [%]**	**Internal resistance [Ω]**	**Internal resistance increase [%]**	**Energy round trip efficiency [%]**	**Energy round trip efficiency fade [%]**	**Expected life-time [# cycles]**	**Expected life-time [years]**
4Ah	<20%	3.6 kW continuous up to 18 kWpeak (0,2 s)	No power fade	0 Ω	<50%	>80%	<10%	1.000 cycles	usage-dependent

Part B: Explanation on the conditions used to derive parameters of Part A

Applied discharge rate	**Applied charge rate**	**Ratio between nominal battery power [W] and battery energy [Wh]**	**Depth of discharge in the cycle-life test**	**Power capability at 80 % and 20 % state of charge**	**Additional information**
6A discharging for cycle life estimation 16A for Energy round trip efficiency	4A charging	1,74 W/Wh	2,5V per cell	100%	No power fade in a SW defined battery Internal resistance: No voltage drop in a SW defined battery