

Naps Battery Description

name: A512/140A
 voltage: 12V
 nom capacity: 140Ah 20h, 20°C, 1.75V/cell

type: Valve-regulated lead-acid (VRLA),
 gel, flat plate



Specifications	Capacity* (Ah)				Dimensions			Hmm with terminals	Weight kg
	V	5h	10h	20h	L mm	W mm	H mm		
A512/140A	12	112	122	140	513	223	195	223	48

* Capacity at 20°C, 1.75V/cell

Terminals and Contact Description

A=Lead automotive type pillar

Brief description and features

'Sealed' valve-regulated lead-acid battery for domestic and light industrial use

No water additions needed or possible during lifetime

Gelled acid gives good resistance to dry-out and high temperatures

Design life for non-PV (standby) use: 7 years at 20°C

Cycle life according to IEC896 part 2: 600 cycles

This only achieved if immediately fully recharged after every discharge

Estimation of service life in PV systems

average working temperature °C	years	if daily cycling less than
20	5.6	14%
25	4.0	19%
30	2.8	26%
35	2.0	37%

product code: ??

Type	Part number	Nominal voltage V	Nominal capacity C20		Discharge current I20 A	Max. load* approx. A	Length (l) max. mm	Width (b/w) max. mm
			1.75 V/C 20°C Ah	20h Ah				
A512/140A	NGA51201	12	140		7	770	513	223
From A tables								
A512/140A		112	122	140				
			5h	10h	20h			

					float 20 cycles at	7 600 60%
					derated float 20 cycles at	80% 5.6 480 60%
estimation of service life in PV systems					total C days	288
average working temperature	years	if daily cycling less than			max daily DOD	
20	5.6	14%		2044	14%	
25	4.0	20%		1445	20%	
30	2.8	28%		1022	28%	
35	2.0	40%		723	40%	
40	1.4	56%		511	56%	
						of nominal capacity

Height up to top of cover (h1) max. mm	Height over terminals (h2) max. mm	Weight approx. kg	Internal resistance acc. to IEC 896-2 mohm	Short circuit current acc. to IEC 896-2 A	Terminal
195	223	48	4.1	3132	A-Terminal