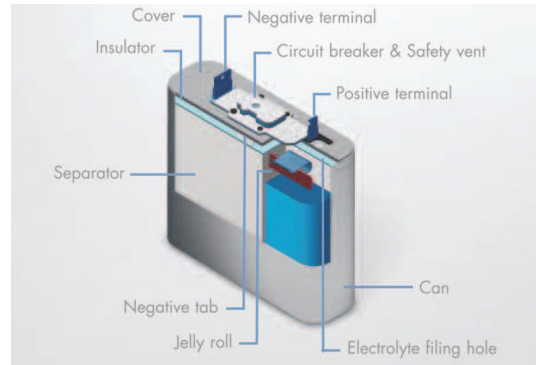


- ✓ Zeer hoge energiedichtheid
- ✓ Zeer breed temperatuurbereik
- ✓ «Militaire» prestaties
- ✓ Zeer lange levensduur
- ✓ Zelfbeveiligd element



Meer informatie op [www.helpelek.be](http://www.helpelek.be)

### Saft MP & VL |

### HOOGWAARDIGE LI-ION SAFT

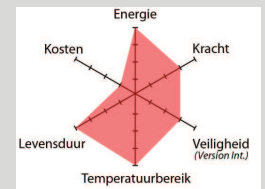


#### KENMERKEN

- Cilindrische of prismatische batterijen
- Nominale spanning: 3,7 V
- Capaciteiten: van 2,0 tot 6,4 Ah
- Energiedichtheid: 150 w/kg
- Pulsstroom: tot 4 C
- Temperatuurbereik: van -40 °C tot +85 °C

#### STERKE PUNTEN

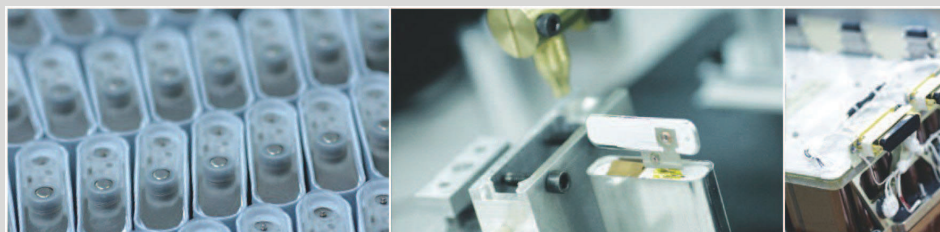
- Hoogste energiedichtheid
- Licht en compact
- Extreme gebruiksomstandigheden
- Goedgekeurd voor 'militaire' toepassingen
- Stabiele spanning gedurende de gehele ontlading
- Geschikt voor langdurige opslag
- Geen onderhoud



**Toepassingen:** Trackingsystemen, militaire toepassingen, mobiele terminals, radio's

	ENERGY				EXTREME COLD	EXTENDED LIFE & TEMPERATURE		HIGH TEMPERATURE	
	VL 34570	MP 144350	MP 174565 Integration™	MP 176065 Integration™	MP 176065 Integration™ xc	MP 174565 Integration™ xtd	MP 176065 Integration™ xtd	VL 25500-125	VL 32600-125
<b>Form factor</b>	Cylindrical D	Prismatic	Prismatic	Prismatic	Prismatic	Prismatic	Prismatic	Cylindrical C	Cylindrical D
<b>Nominal voltage</b>	3.7 V	3.75 V	3.75 V	3.75 V	3.65 V	3.65 V	3.65 V	3.6 V	3.6 V
<b>Nominal capacity</b>	5.4 Ah	2.6 Ah	4.8 Ah	6.8 Ah	6.4 Ah	4.0 Ah	5.6 Ah	2.0 Ah	4.5 Ah
<b>Max. continuous discharge current</b>	11.0 A	5.0 A	10.0 A	14.0 A	13.0 A	8.0 A	11.2 A	1.0 A	2.3 A
<b>Max. pulse discharge rate</b>	21.0 A	10.0 A	20.0 A	30.0 A	26.0 A	16.0 A	22.4 A	1.5 A	3.4 A
<b>Max. charge current</b>	5.4 A	2.6 A	5.0 A	7.0 A	6.5 A	4.0 A	5.6 A	0.5 A	0.9 A
<b>Cycle life</b>	500 cycles 100% DoD, 20°C	500 cycles 100% DoD, 20°C	600 cycles 100% DoD, 20°C	600 cycles 100% DoD, 20°C	450 cycles 100% DoD, 20°C	1000 cycles 100% DoD, 20°C	1000 cycles 100% DoD, 20°C	30 cycles (100% DoD, +125°C)	30 cycles (100% DoD, +125°C)
<b>Outside diameter</b>	34.2 mm	-	-	-	-	-	-	24.34 mm	32.05 mm
<b>Thickness</b>	-	14.6 mm	18.1 mm	18.6 mm	18.6 mm	18.1 mm	18.6 mm	-	-
<b>Width</b>	-	43.9 mm	45.5 mm	60.5 mm	60.5 mm	45.5 mm	60.5 mm	-	-
<b>Height</b>	59.43 mm	54.5 mm	68.7mm	68.7 mm	68.7 mm	68.7 mm	68.7 mm	49.2 mm	61.85 mm
<b>Typical weight</b>	125 g	68 g	103 g	143 g	134 g	97 g	136 g	59 g	139 g
<b>Discharge temperature range</b>	-50 / +60°C	-50 / +60°C	-50 / +60°C	-50 / +60°C	-50 / +60°C	-40 / +85°C	-40 / +85°C	0 / +125°C	0 / +125°C
<b>Charge temperature range</b>	-20 / +60°C	-20 / +60°C	-20 / +60°C	-20 / +60°C	-30 / +60°C	-30 / +85°C	-30 / +85°C	0 / +125°C	0 / +125°C

Typical values relative to cells stored for one year or less at +30°C max ; Performances vary according to discharge characteristics (current, duration, frequency), temperature conditions, storage conditions prior to usage and applications acceptable minimum voltage.



- ✓ Volledig autonoom (laden/ontladen)
- ✓ Uitgebreid werkingsbereik
- ✓ Optimaal gebruik dankzij de controller
- ✓ Bewaking van de activiteit
- ✓ Directe aansluiting op de toepassing



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### Autonome batterijen |

### 100 % AUTONOME ARTS ENERGY-MODULES

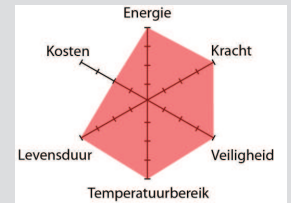


#### KENMERKEN

- Autonome Ni-MH-module
- Voltage module: 12, 24 en 36 V
- Capaciteiten: 9 tot 30 Ah
- Parallele opstelling mogelijk
- Temperatuurbereik: -40 °C tot +70 °C
- Geoptimaliseerde levensduur door microcontroller
- LED-status SoC + reporting
- Rechthoekig en cilindrisch formaat
- IP65

#### STERKE PUNTEN

- Plug & Play
- Intelligent batterijmanagement
- Geïntegreerde beveiligingen
- Zeer lange levensduur
- Directe aansluiting op zonnepanelen
- Geen onderhoud
- Kan in de palen worden geplaatst
- Registratie van de activiteitsgeschiedenis
- Geen transportbeperkingen
- 'Groene' technologie



**Toepassingen:** Stand alone zonnepanelen, back-up, mobiele meetapparatuur, nachtverlichting, verkeerstekens, medische karren, weerstation

	Smart VH module								Mobility module					
	VH D			VH F					VH D		VH F			
	10S	20S	30S	10S	20S	30S	10S2P	20S2P	20S	30S	20S	30S	10S2P	20S2P
<b>Electrical characteristics</b>														
Minimal voltage (V)	12	24	36	12	24	36	12	24	24	36	24	36	12	24
Typical capacity (Ah)	9	9	9	15	15	15	30	30	9	9	15	15	30	30
Energy (Wh)	108	216	324	180	360	540	360	720	216	324	360	540	360	720
Specific energy (Wh/kg)	51	57	58	58	64	68	64	67	44	49	55	56	55	59
Energy density (Wh/l)	83	104	113	107	126	134	126	139	85	95	104	113	102	117
<b>Mechanical characteristics</b>														
Height (mm)	99	159	219	129	219	309	219	395	170	228	231	320	235	410
Length (mm)	178	178	178	178	178	178	178	178	185	185	185	185	185	185
Width (mm)	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	81	81	81	81	81	81
Weight (kg)	2.1	3.8	5.6	3.1	5.6	8.0	5.6	10.7	4.9	6.6	6.5	9.6	6.5	12.3
Volume (l)	1.3	2.1	2.9	1.7	2.9	4.0	2.9	5.2	2.5	3.4	3.5	4.8	3.5	6.1

	Smart VHT module							PV module				Extensolar			
	10S	20S	20S	30S	30S	10S2P	20S2P	20S	30S	10S2P	20S2P	10S2P	20S	20S2P	30S2P
<b>Electrical characteristics</b>															
Minimal voltage (V)	12	24	24	36	36	12	24	24	36	12	24	12	24	24	36
Typical capacity (Ah)	10	6	10	6	10	20	20	10	10	20	20	20	10	20	20
Energy (Wh)	120	144	240	216	360	240	480	240	360	240	480	240	240	480	720
Specific energy (Wh/kg)	44	53	50	53	52	50	52	44	44	44	44	40	40	44	46
Energy density (Wh/l)	71	69	84	77	89	84	93	69	75	69	78	52	52	66	78
<b>Mechanical characteristics</b>															
Height (mm)	129	158	219	217	309	219	395	231	320	231	410	300	300	475	650
Length (mm)	178	178	178	178	178	178	178	185	185	185	185	Diameter : 140			
Width (mm)	73.5	73.5	73.5	73.5	73.5	73.5	73.5	81	81	81	81				
Weight (kg)	2.7	2.7	4.8	4.1	6.9	4.8	9.2	5.5	8.1	5.5	10.8	6.0	6.0	11.0	15.5
Volume (l)	1.7	2.1	2.9	2.8	4.0	2.9	5.2	3.5	4.8	3.5	6.1	4.6	4.6	7.3	10.0