

ARTS

ENERGY

The ARTS Energy ENDURANCE L2 range series are perfectly suited to professional applications requiring a battery with an exceptional robustness (electrical performance, but also the external battery casing). Endurance L2 range is designed to operate in very demanding environment (from -40°C to +85°C).


ENDURANCE L2 has been designed for « large » solar systems (up to a 10 kWh battery).

ENDURANCE L2 has been also designed to perfectly fit with 2U and 19 inches racks (telecom and back up applications).

ENDURANCE L2 is also an excellent choice for cycling applications (professional electronics, medical, peak shaving) as it delivers for example, 5000 cycles at 50% DOD.

To meet customers' requirements, ARTS Energy provides custom-designed and standardised battery packs.

For your battery design and system needs, please contact ARTS Energy's engineers.



ELECTRICAL CHARACTERISTICS		
Battery type	Voltage	IEC Cell Capacity *
ENDURANCE L2 12V - 6 Ah	12V	6 Ah
ENDURANCE L2 12V - 10 Ah	12V	10 Ah
ENDURANCE L2 12V - 20 Ah	12V	20 Ah
ENDURANCE L2 24V - 6 Ah	24V	6 Ah
ENDURANCE L2 24V - 10 Ah	24V	10 Ah
ENDURANCE L2 24V - 20 Ah	24V	20 Ah
ENDURANCE L2 36V - 10 Ah	36V	10 Ah
ENDURANCE L2 36V - 20 Ah	36V	20 Ah
ENDURANCE L2 48V - 10 Ah	48V	10 Ah
ENDURANCE L2 48V - 20 Ah	48V	20 Ah

* depending on battery configuration & conditions of use, capacity may be reduced

CHARGE CONDITIONS	Temp. (°C)	Current
Back up applications	-20 to +85	Consult ARTS Energy
Solar applications	-40 to +85	C/3 max

DISCHARGE CONDITIONS	Temp. (°C)	Current
	+20 to +85	14A max
	0 to +85	C/2 max
	-20 to +85	C/5 max
	-40 to +85	C/20 max

CYCLING CONDITIONS	Cycling	Life duration
Back up applications	1 discharge/day max	5 to 10 years
Solar applications	1 discharge/day max	5 to 10 years

APPLICATIONS

- Back-up systems
- Peak shaving applications (money saving)
- Professional electronics, medical
- Solar

MAIN BENEFITS

- Very high cycle life
- Exceptional temperature range
- Superior robustness

TECHNOLOGY

- Foam positive electrode
- Plastic bonded metal-hydride negative electrode

NI-MH

ENDURANCE L2

High Robustness Series

ENDURANCE L2

High Robustness Series

STORAGE

Recommended: + 5°C to + 25°C

Relative humidity: 65 ± 5 %



COMPONENTS

VHT F or VHT D cells

12V and 24V: connector MOLEX 39-03-9062

36V and 48V: connector MOLEX 39-01-4061

Wires AWG16, 50 cm

Thermofuse (non reversible) +93°C +0°C/-5°C

Plastic ABS/PC V0

The operation of the battery must strictly be in accordance with ARTS Energy technical recommendations, to obtain the performances stated by ARTS Energy.

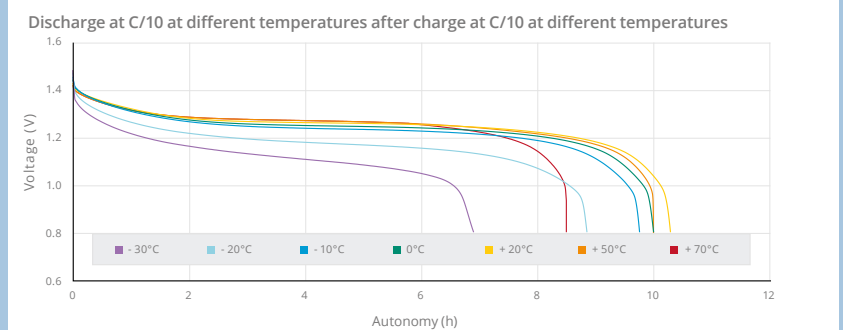
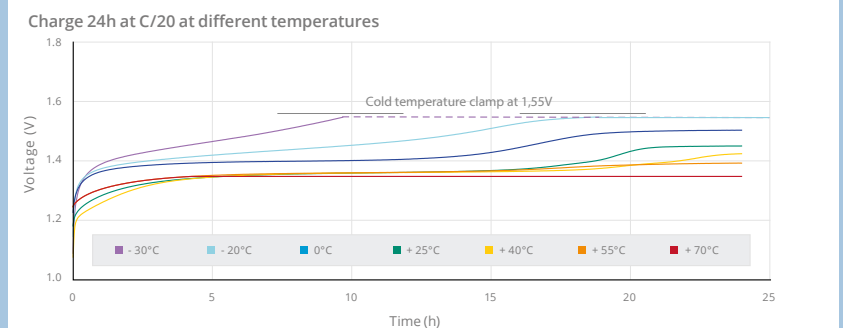
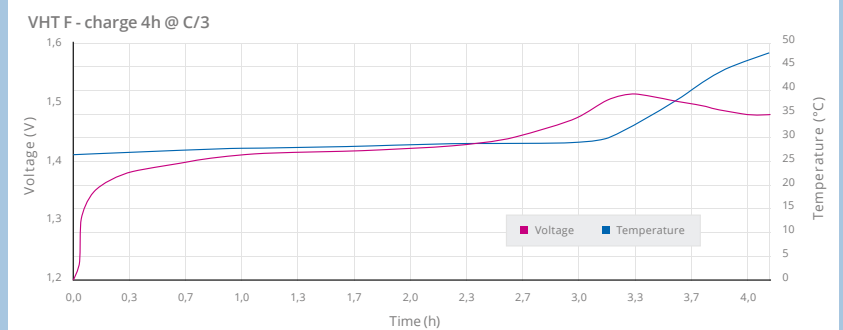
Data is given for single cells. Please consult ARTS Energy for utilisation of cells outside specification.

Data in this document is subject to change without notice and become contractual only after written confirmation by ARTS Energy.

MECHANICAL CHARACTERISTICS

Battery type	Thickness (mm)	Width (mm)	Height (mm)	Weight (Kg)
ENDURANCE L2 12V - 6 Ah	73,5	178	79	2,1
ENDURANCE L2 12V - 10 Ah	73,5	178	109	2,6
ENDURANCE L2 12V - 20 Ah	73,5	178	198	4,9
ENDURANCE L2 24V - 6 Ah	73,5	178	137	3,2
ENDURANCE L2 24V - 10 Ah	73,5	178	198	4,9
ENDURANCE L2 24V - 20 Ah	73,5	178	375	9,4
ENDURANCE L2 36V - 10 Ah	73,5	178	286	7,2
ENDURANCE L2 36V - 20 Ah	73,5	178	554	14,0
ENDURANCE L2 48V - 10 Ah	73,5	178	375	9,4
ENDURANCE L2 48V - 20 Ah	73,5	178	732	18,3

For graphs shown, C is the IEC₅ capacity.



10, rue Ampère
Zone Industrielle - 16440 Nersac, France
Tél. +33(0)5 45 90 35 52 /35 53
contact@arts-energy.com

Doc No.: 054-A-1017 - Edition: October 2017
ARTS Energy SAS. Stock capital 971.002
RCS Angoulême 792 635 013
Conception in FR by Alain Bruneaud Création



www.arts-energy.com