

ARTS

ENERGY

ARTS Energy 1S1P battery pack is perfectly suited to professional applications requiring a compact battery.

The 1S1P rechargeable Lithium ion battery can quickly be integrated into a wide range of electronic devices. The battery comprises a single 18650 cell in a 1-series, 1-parallel configuration.



FEATURES

- Built in protection board
 - Overcharge protected
 - Overdischarge protected
 - Overcurrent protected
 - Short circuit protected
- Best cells from the market
- Standard 3 pins connector: MOLEX 2139-3A, contact 2578 serie
 - Pin 1: positive
 - Pin 2: NTC (R25 = 10kΩ, B25/85 = 3435K)
 - Pin 3: negative
- Designed and produced in Europe
- UN38.3 certified for transportation

BENEFITS

- High energy density
- Low self discharge
- Other capacities compatible

ELECTRICAL CHARACTERISTICS	807258	807347	807346
IEC Designation	1 ICR 19/66	1 ICR 19/66	1 INR 19/66
Rated energy (Wh)	7,92	9,36	12,06
Nominal voltage (V)	3,6	3,6	3,6
Nominal capacity (Ah)*	2,2	2,6	3,35
Rated capacity (Ah)*	2,15	2,5	3,25
Typical 1 KHz impedance (mΩ)	120	120	120
* at 0.2C discharge.			
MECHANICAL CHARACTERISTICS			
Length, Diameter (mm)	69,4 X 18,6	69,4 X 18,6	69,4 X 18,6
Wire length (mm)	190	190	190
Weight (Gr)	50	50	50
CHARGING CONDITIONS			
CCCV with end of charge by current cut-off or timer			
Nominal charging voltage (V)	4,2	4,2	4,2
Maximum charging current I _{ch} (A)	1,5	1,75	1,75
Balancing Sytem integrated	NA	NA	NA
Recommended charging temperature (°C)	0°C - + 45°C	0°C - + 45°C	0°C - + 45°C
DISCHARGE CONDITIONS			
Application recommended voltage cut-off (V)	2,75	2,75	2,75
Maximum continuous current (A)	4,3	5	5
Peak current (A - s)	6A - 10ms	6A - 10ms	6A - 10ms
Operating temperature (°C)	-20°C - +60°C	-20°C - +60°C	-20°C - +60°C
SAFETY PROTECTIONS INCLUDED			
Cell over charge detection voltage (V)	4,325+/-0,025	4,325+/-0,025	4,325+/-0,025
Cell over discharge detection voltage (V)	2,5+/-0,05	2,5+/-0,05	2,5+/-0,05
Cell charge inhibit detection voltage (V)	NA	NA	NA
Over charge current detection (A)	6,5 min	6,5 min	6,5 min
Over discharge current detection (A)	6,5 min	6,5 min	6,5 min
Over temperature detection temperature (°C)	NA	NA	NA
Under temperature detection temperature (°C)	NA	NA	NA
LIFE TIME			
Nb of cycles @ 23° C, STD ch, STD disch.	500	500	500
GAUGE OPTION			
Which Component?	No	No	No
Display?	No	No	No
Communication Bus	No	No	No

LI-ION

RECHARGEABLE 1S1P BATTERY PACK

with Connector

1S1P BATTERY PACK

Li Ion Rechargeable 1S1P Battery Pack with Connector

APPLICATIONS

- Measurement devices
- Remote controls
- Professional electronics

STORAGE

Storage	Temperature	Max Duration
Recommended	-20~25°C (1)	1 year
Extended	-20~45°C (1)	3 months
	-20~60°C (1)	1 month
(1): If the battery is kept as ex-factory status (30% of charge), the capacity recovery rate is more than 80%		

RECOMMENDATIONS

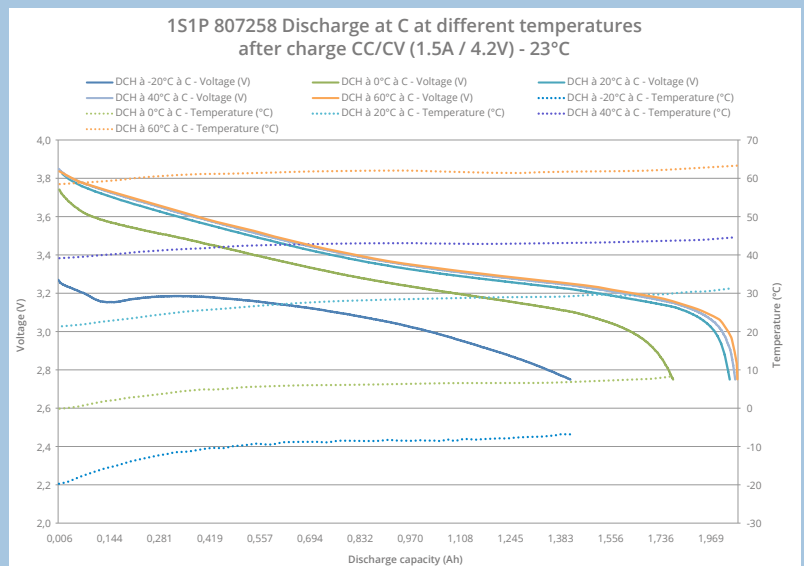
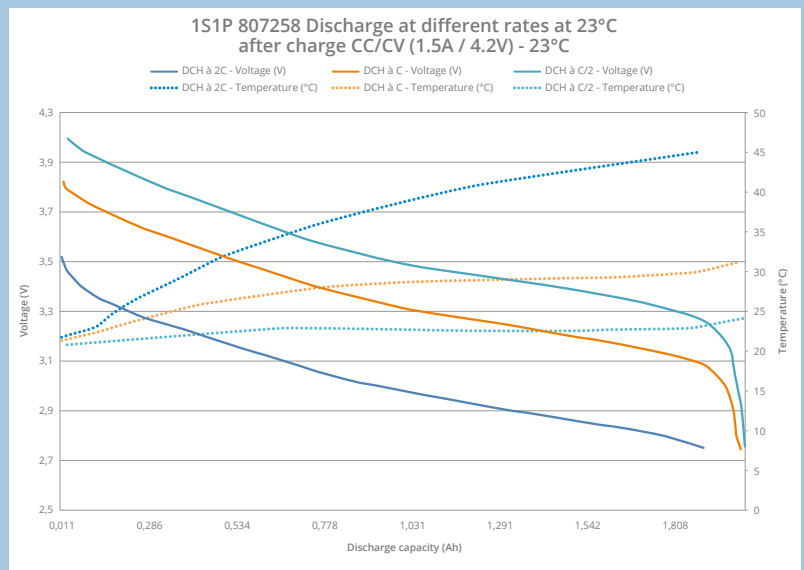
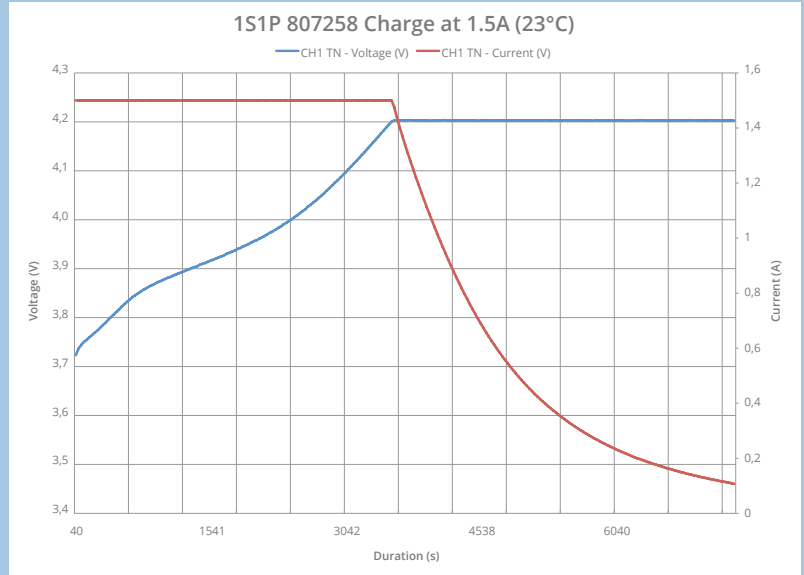
- Charge is forbidden below 0°C and above 60°C
- Please refer to our website for
 - Use instructions to complete your user manual
 - Charge recommendations

ARTS ENERGY CHARGER

- Please consult us for compatible charger

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

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



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