



**The summary of the technical specification
for WN-models of LiFePO₄ cells**

**WN36AH, WN50AH
WN72AH, WN100AH**



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<http://www.ev-power.eu>

The technical specification of the WN cells

The advantages of the WN cells

- professionally produced LiFePO₄ cells
- stability during high current discharge
- the discharge with long flat discharge area (3.30V to 3.10V)
- aluminum case for protecting the cell
- no overheating or heat release during operation

Model name	WN36AH	WN50AH	WN72AH	WN100AH
Other product marking	IFP36130155	IFP45120187	IFP59112206	IFP36230218
Nominal voltage (V)	3.2 V	3.2 V	3.2 V	3.2 V
Nominal capacity (Ah)	36 Ah	50 Ah	72 Ah	100 Ah
Max voltage per cell (V)	3.8 V	3.8 V	3.8 V	3.8 V
Minimal voltage per cell (V)	2.5 V	2.5 V	2.5 V	2.5 V
Operating voltage (V)	2.8 V to 3.7 V	2.8 V to 3.7 V	2.8 V to 3.7 V	2.8 V to 3.7 V
Optimal discharge current 0.3C (Amp)	< 11 A	< 15 A	< 21 A	< 33 A
Maximal discharge current 3C (Amp)	108 A	150 A	216 A	300 A
Max peak discharge current 5 C, < 15 seconds (Amp)	< 180 A	< 250 A	< 360 A	< 500 A
Optimal charge current 0.3C (Amp)	< 11 A	< 15 A	< 21 A	< 33 A
Maximal charge current 1C (Amp)	36 A	50 A	72 A	100 A
Capacity at 3C discharge <90% (Ah)	32 Ah	45 Ah	64 Ah	90Ah
Internal resistance (mOhm)	< 2 mOhm	< 2 mOhm	< 2 mOhm	< 1 mOhm
Cycle life (80% DOD at 0.3C)	> 2000 cycles	> 2000 cycles	> 2000 cycles	> 2000 cycles
Self discharge rate (% per month)	< 3%	< 3%	< 3%	< 3%
Operating temperature (charging)	0 to 45 °C	0 to 45 °C	0 to 45 °C	0 to 45 °C
Operating temperature (discharging)	-25 to 55 °C	-25 to 55 °C	-25 to 55 °C	-25 to 55 °C
Atmospheric Pressure	86 to 106 kPa	86 to 106 kPa	86 to 106 kPa	86 to 106 kPa
Dimensions width x length x height (mm)	36 x 130 x 155	45 x 120 x 187	59 x 112 x 206	36 x 230 x 218
Weight (tolerance +/- 50g)	1.3 kg	1.75 kg	2.35 kg	3.35 kg

GWL/Power WINA WN36AH

Dimensions 36 x 130 x 155



GWL/Power WINA WN50AH

Dimensions 45 x 120 x 187



GWL/Power WINA WN72AH

Dimensions 59 x 112 x 206



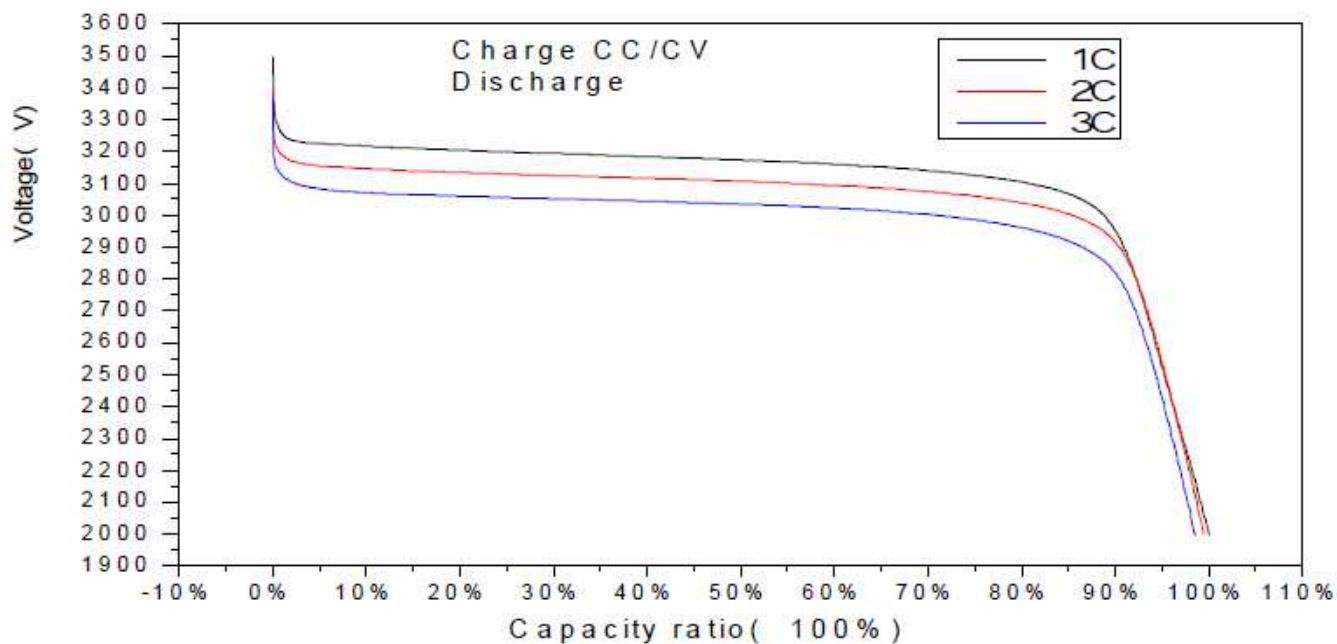
GWL/Power WINA WN100AH

Dimensions 36 x 230 x 218

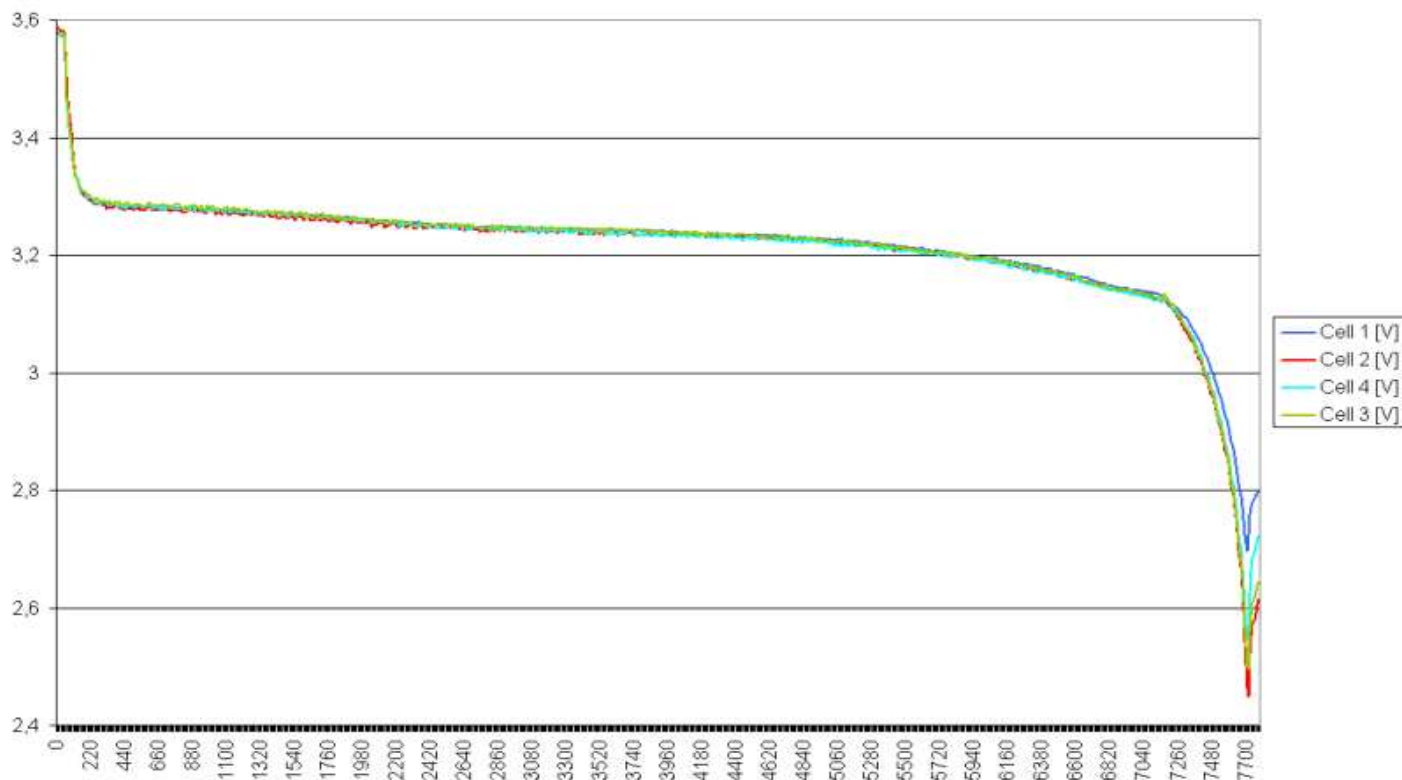


Additional data for the WINA LiFePO4 cells

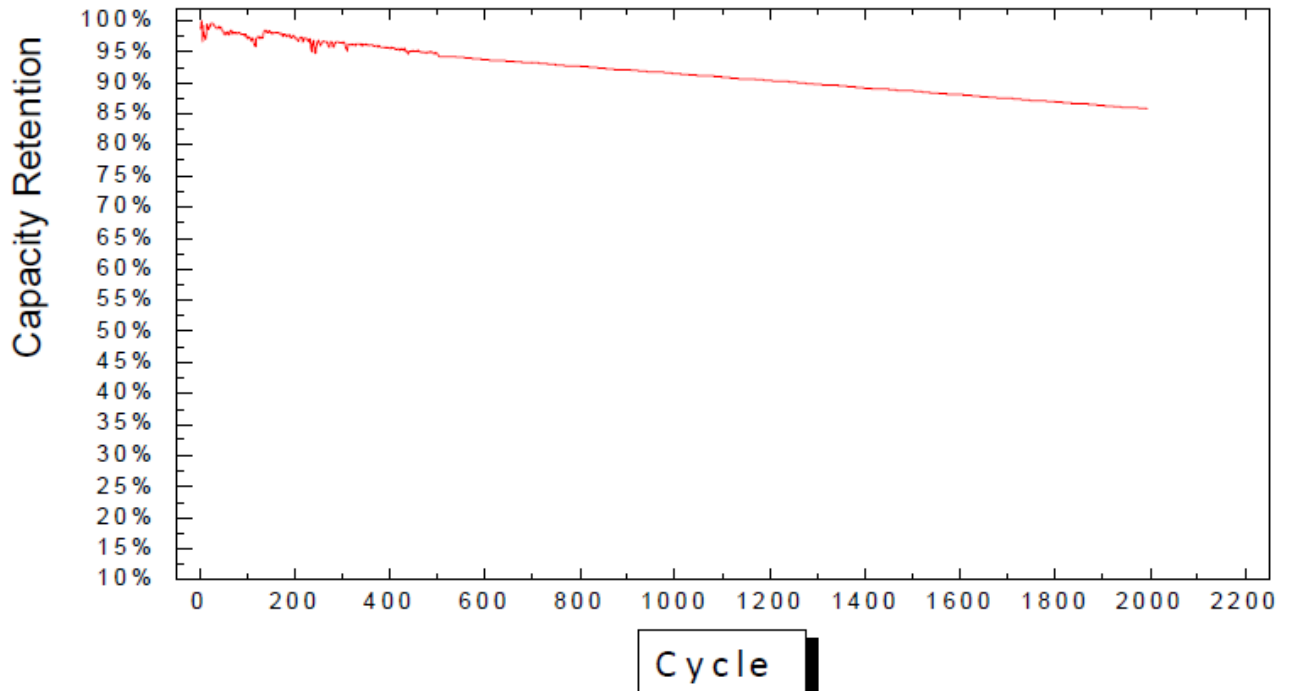
- The discharge diagram for the 1C, 2C and 3C loads



- The discharge diagram for 0.5 C (18A), as measured during the test of WN36AH



- The cycle life of the WINA cells is 2000+ cycles



The high quality LiFePO4 cells are waiting for you!



<http://www.ev-power.eu>

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