

SOLAR BATTERIES



ISO 9001

NG GEL SERIES



Specifications

2 Volt Tubular Plate Series:
Capacities, 200Ah – 3000Ah

12 Volt Flat Plate Series:
Capacities, 24Ah – 200Ah

Features

Gelled Electrolyte

Excellent cycling
performance

All batteries conform to
Solar Battery Standard
BS EN 61427:2002

2 Volt Series: OPzV
Specification designed in
accordance with DIN 40742

Neutron Power brand,
exclusive to YHI Power.

Applications

Solar and Wind Power

Remote area power supplies

Grid connect systems

Recreational applications

NG 2 Volt Series

Features

- OPzV gel VRLA construction
- Wide range of capacities available – up to 3000 Ah
- Suited to long repeated discharge duty
- Long Cycle Life* – 1500 + to 80% DOD
 - 2500 + to 50% DOD
 - 5000 + to 25% DOD
- Wide operational temperature range: -20°C to 50°C.
- Proven reliability
- Product Standards; Q/321284KGC 01-2006, DIN40742, IEC 60896-2, BS EN 61427-2002.
- OPzV batteries use tubular plate technology with gel as electrolyte.
- Container and Cover Material: ABS plastic (imported from Italy)
- Tubular Plate with Lead-Calcium-Tin multi alloy
- Specially sealed embedded copper core compound posts.
- Able to be mounted horizontally or vertically.



Physical Specifications

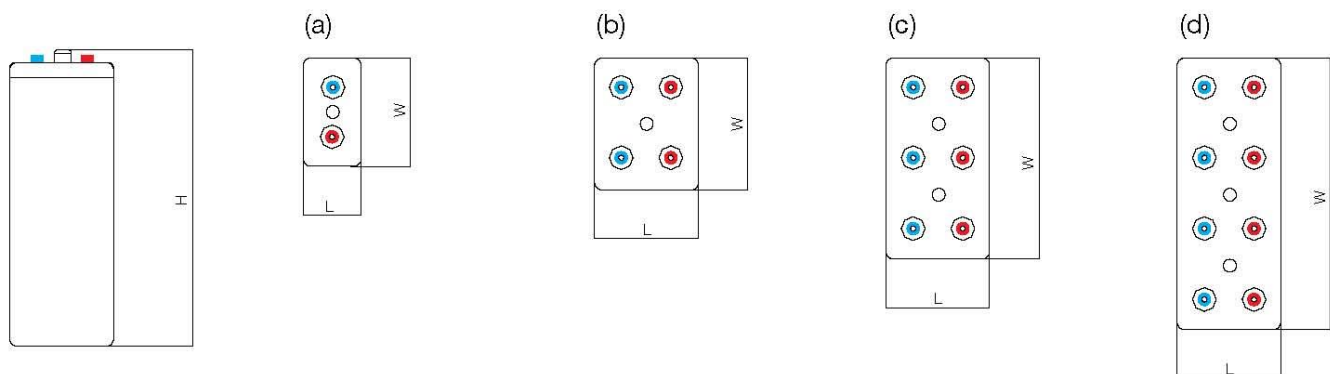
Battery Model No.	Voltage (Volts)	Nominal Capacity C ₁₀	Length (mm)	Width (mm)	Height (mm)	Weight (Kg)	Terminal Type/Layout
NG2(OPzV)-200	2	200	103	206	380	18.5	M10 Bolt Insert (a)
NG2(OPzV)-300	2	300	145	206	380	27.0	M10 Bolt Insert (a)
NG2(OPzV)-500	2	500	166	206	496	39.5	M10 Bolt Insert (a)
NG2(OPzV)-600	2	600	145	210	671	48.0	M10 Bolt Insert (a)
NG2(OPzV)-800	2	800	210	191	671	64.5	M10 Bolt Insert (b)
NG2(OPzV)-1000	2	1000	212	233	671	80.0	M10 Bolt Insert (b)
NG2(OPzV)-1200	2	1200	212	275	671	94.0	M10 Bolt Insert (b)
NG2(OPzV)-1500	2	1500	212	275	821	115.0	M10 Bolt Insert (b)
NG2(OPzV)-2000	2	2000	214	399	797	156.0	M10 Bolt Insert (c)
NG2(OPzV)-3000	2	3000	212	576	797	230.0	M10 Bolt Insert (d)

Electrical Specifications

Battery Model No.	Voltage (Volts)	C ₅ To 1.80Vpc	C ₁₀ To 1.80Vpc	C ₂₄ To 1.85 Vpc	C ₁₀₀ To 1.85 Vpc	C ₁₂₀ To 1.85 Vpc	Internal Resistance (MilliOhms)	Short Circuit Current (Amps)
NG2(OPzV)-200	2	170	216	225	257	262	0.60	3417
NG2(OPzV)-300	2	255	325	337	384	392	0.45	4556
NG2(OPzV)-500	2	425	536	552	624	642	0.34	6029
NG2(OPzV)-600	2	510	650	674	780	785	0.33	6212
NG2(OPzV)-800	2	690	870	890	1018	1037	0.30	6833
NG2(OPzV)-1000	2	850	1090	1113	1274	1296	0.26	7885
NG2(OPzV)-1200	2	1020	1305	1333	1528	1556	0.25	8200
NG2(OPzV)-1500	2	1275	1590	1639	1870	1908	0.24	8542
NG2(OPzV)-2000	2	1700	2120	2185	2490	2545	0.22	9318
NG2(OPzV)-3000	2	2550	3180	3279	3750	3817	0.19	10789

Battery Dimensions & Layout

= - terminal
 = + terminal
 H = Height
 L = Length
 W = Width



NS 4,6 Volts Series

Applications

- Solar • Wind Power • Hybrid Applications • Other Deep Cycle

Electrical Specifications*

Battery Model No.	Nominal Voltage (Volts)	C ₁₂₀ to 1.85 Vpc	C ₁₀₀ to 1.85 Vpc	C ₂₄ to 1.85 Vpc	C ₁₀ to 1.80 Vpc	Short Circuit Current (Amps)
NS6-830	6	865	830	676	588	4300
NS6-1000	6	1050	1000	792	720	4400
NS4-1350	4	1405	1350	1066	960	4730
NS4-1700	4	1770	1700	1320	1200	5240

Physical Specifications

Standard tray dimensions for all models – 535mm L x 245mm W x 725mm H

All systems supplied complete with tray, lid, batteries and accessories

Weights (kg)	
NS6-830	142
NS6-1000	163
NS4-1350	153
NS4-1700	180

Tray material: polyethylene

Electrolyte density: 1260kg/m³

Cycle Life* at 10Hr Discharge Rate
1500 Cycles to 80 % DOD
2600 Cycles to 50 % DOD
3800 Cycles to 30 % DOD
5400 Cycles to 20 % DOD
9600 Cycles to 10 % DOD

*Quoted cycle life and capacities based on ambient temperature of 25°C and dependent on operation in accordance with manufacturer's recommendations. Specifications are subject to change without notice.

NG 12 Volt Series

Features

- Suited to long repeated discharge duty
- Long Cycle Life* – 900 + cycles to 80% DOD
 - 1500 + cycles to 50% DOD
 - 2800 + cycles to 25% DOD
- Wide operational temperature range: -20°C to 50°C .
- Proven reliability
- Product Standards; DIN43534 & DIN43539-5, BS EN 61427-2002.
- Container and Cover Material: ABS plastic
- Able to be installed in any position other than inverted.



Physical Specifications

Battery Model No.	Voltage (Volts)	Nominal Capacity C ₁₀	Length (mm)	Width (mm)	Height (mm)	Weight (Kg)	Terminal Type
NG12-24	12	24	166	175	125	8.6	M5 bolt insert
NG12-50	12	50	276	175	187	21.0	M8 bolt insert
NG12-65	12	65	353	175	224	30.5	M8 bolt insert
NG12-80	12	80	335	175	230	35.0	M8 bolt insert
NG12-100	12	100	513	164	224	45.0	M8 bolt insert
NG12-120	12	120	513	229	224	53.5	M8 bolt insert
NG12-150	12	150	513	229	224	63.0	M8 bolt insert
NG12-200	12	200	513	294	224	82.5	M8 bolt insert

Electrical Specifications

Battery Model No.	Voltage (Volts)	C ₅ To 1.80Vpc	C ₁₀ To 1.80Vpc	C ₂₄ To 1.85 Vpc	C ₁₀₀ To 1.85 Vpc	C ₁₂₀ To 1.85 Vpc	Internal Resistance (MilliOhms)	Short Circuit Current (Amps)
NG12-24	12	18.4	20.6	21	25	26	13.0	1000
NG12-50	12	40	52	57	62	63	6.38	1881
NG12-65	12	56.5	68	74	83	85	4.48	2679
NG12-80	12	72	86	93	99	104	4.33	2771
NG12-100	12	80	108	109	126	130	3.26	3681
NG12-120	12	97.5	130	131	150	156	2.98	4027
NG12-150	12	121	163	164	189	195	2.63	4563
NG12-200	12	160	218	219	256	260	2.17	5530

* Quoted cycle life and capacities based on ambient temperature of 25°C and dependent on operation in accordance with manufacturer's recommendations.