

**POWSYS**™

**BATTERY**

**POWSYS** Battery  
**ULT Series**



G3M20207-1384-E-16

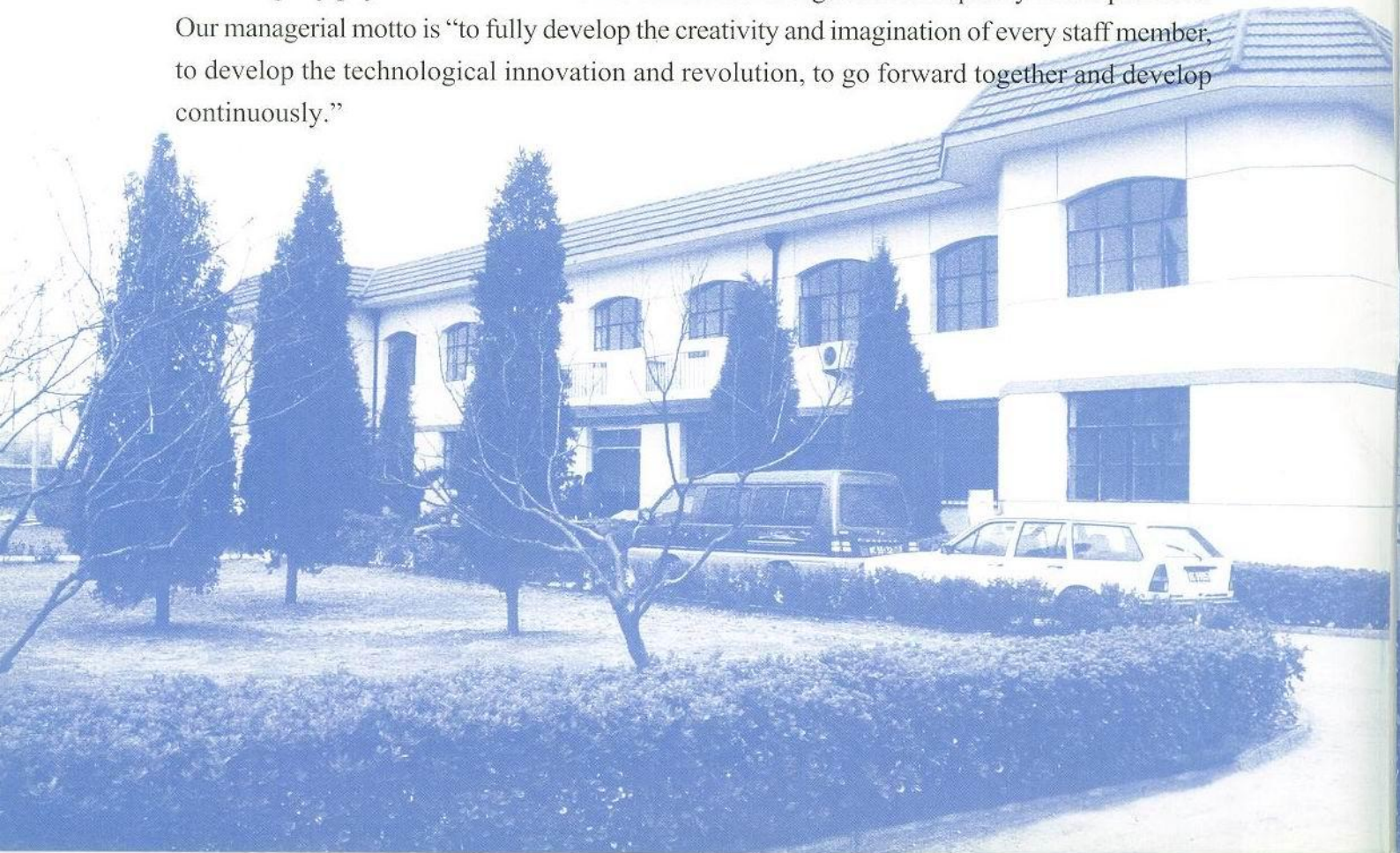
## ■ Battery Factory Introduction

Since the company was established, Powsys has combined its strength in technology, funds and management to focus on development, manufacture and sales for Storage Batteries.

With the use of modern production and inspection equipment, experienced, trained technicians direct the technical staff to ensure the features of the battery, including stable function, outstanding quality and perfect appearance.

For many years, our company insisted on researching and developing new types of products. Our products has been applicated to the field of UPS and other hi-tech products like post-communications, power equipment, radio equipment, electronic equipment, and electric bicycles, etc. We also offer the perfect services for the market needs. The products were used in some intemational conferences many times and exported to the United States and Korea for years.

Our company pays close attention to the scientific management and quality of the products. Our managerial motto is "to fully develop the creativity and imagination of every staff member, to develop the technological innovation and revolution, to go forward together and develop continuously."



# ■ Technical Features

## **Sealed Construction**

The unique construction and sealing techniques of the POWSYS battery guarantee leakproof operation in any position with no adverse effect to capacity or service life.

## **Electrolyte Suspension System**

ALL POWSYS batteries utilize an electrolyte suspension system consisting of a high porosity, glass fiber material which in conjunction with plates, totally absorb and contain the electrolyte. No Silica gels or any other contaminants are used.

## **Gas Generation**

POWSYS batteries incorporate a built-in design that controls gas generation and induces recombination of more than 99% of gases generated during float usage.

## **Maintenance Free Operation**

There is no need to check specific gravity of the electrolyte or add water to POWSYS batteries during float service life. In fact, there is no provision for this type of maintenance.

## **Low Pressure Valve Regulated System**

ALL POWSYS batteries are equipped with safety release valves, designed to operate between 2 and 5 psi and automatically reseal. Hence, there is never an excessive accumulation of gas within the battery.

## **Heavy Duty Grids**

Heavy duty lead calcium tin alloy grids provide an extra margin of performance and service life in either float or cyclic applications, even after repeated over discharges.

## **Cyclic Service Life**

More than 1000 discharge/recharge cycles can be realized from POWSYS batteries, dependent on the average depth of discharge.

## **Float Service Life**

POWSYS ULT Series batteries have an expected life span of 3 to 5 years in float service applications.

## **Self Discharge-Shelf Life**

The self discharge rate of all ULT series at room temperature is approximately 3% of rated capacity per month.

## **Operating Temperature**

POWSYS ULT Batteries may be operated over a broad range of ambient temperatures.

## **Deep Discharge Recovery**

POWSYS batteries recover their capacities even after repeated deep discharges.

# ■ Applications

A partial list of common applications includes:

## **FLOAT SERVICE**

- \* Burglar and Fire Alarm
- \* Office Machines
- \* Cash Registers
- \* Solar Power Devices
- \* Telecommunications
- \* U.P.S. Equipment
- \* Emergency Lighting
- \* Computers

## **CYCLIC SERVICE**

- \* Audio & Video Equipment
- \* Portable Lights
- \* Electric Wheelchairs
- \* Golf Carts
- \* Test Equipment
- \* Geophysical Equipment

## **FLOAT / CYCLIC SERVICE**

- \* Medical Equipment
- \* Communications
- \* Cellular Telephones

# ULT Series

ULT BATTERIES FOR HIGH RATE DISCHARGE & LONG LIFE APPLICATIONS DESIGN LIFE: 3-5 YEARS  
IN FLOAT SERVICE(25°C)

Type	Nominal Voltage (V)	Rated Capacity (AH)	Nominal capacity (AH)					Dimension(mm)				Weight (kg)
			20hr	10hr	5hr	3hr	1hr	Length	Width	Height	Total Height	
ULT6-4	6	4	4	3.72	3.4	3	2.4	70	48	103	108	0.85
ULT6-8	6	8	8	7.44	6.8	6	4.8	98	56	118	118	1.55
ULT6-12	6	12	12	11.2	10.2	9	7.2	152	51	95	100	1.95
ULT12-4-1	12	4	4	3.72	3.4	3	2.4	90	70	102	107	1.70
ULT12-4-2	12	4	4	3.72	3.4	3	2.4	195	47	70	75	1.65
ULT12-7	12	7	7	6.5	6	5.25	4.2	152	66	95	100	2.55
ULT12-12	12	12	12	11.2	10.2	9	7.2	152	99	96	100	4.0
ULT12-17	12	17	17	15.8	14.5	12.75	10.2	181	77	167	167	6.0
ULT12-24-1	12	24	24	22.3	20.4	18	14.4	166	125	175	175	9.0
ULT12-24-2	12	24	24	22.3	20.4	18	14.4	175	166	126	126	8.5
ULT12-33	12	33	33	30.7	28.1	23.43	19.8	196	130	164	178	11
ULT12-40	12	40	40	37.2	34	28.4	24	197	166	171	171	15
ULT12-50	12	50	50	46.5	42.5	37.5	30	259	133	203	203	18
ULT12-65	12	65	65	60.5	55.3	48.75	39	350	166	168	175	23.5
ULT12-75	12	75	75	70	63.8	56.25	45	259	168	208	231	24.5
ULT12-90	12	90	90	83.7	76.5	67.25	54	330	174	214	234	29.5
ULT12-100-1	12	100	100	93	85	75	60	405	174	216	248	36
ULT12-100-2	12	100	100	93	85	75	60	328	170	217	221	31.5
ULT12-150	12	150	150	140	128	112.5	90	483	173	242	242	53
ULT12-200	12	200	200	186	170	142	120	520	240	220	248	70