

**FLOODED
DEEP CYCLE
BATTERY
MAINTENANCE**

Rolls

BATTERY ENGINEERING



Rolls Battery system setup, inspection and maintenance log book for flooded deep cycle batteries.



**RAILROAD &
DIESEL STARTER**

Rolls



MARINE



MOTIVE POWER



**RENEWABLE
ENERGY**



CHARGING: ROLLS BATTERY SERIES 4000, 4500, 5000 FLOODED LEAD ACID MODELS

Every battery-based system requires specific charge set points which will vary depending on frequency of cycling, operating temperature and depth of discharge. Reference the Regular Cycling / Partial State of Charge table when attempting to recover an undercharged battery bank or with system which cycle on a regular basis (every 1–2 days). Reference the charging parameters noted in the Infrequent Cycling / Backup System table when cycling is very light, infrequent and/or the batteries are resting at full state of charge for long periods of time (ex: grid-tied backup applications). Testing specific gravity on a regular basis is strongly recommended. To maximize efficiency and to ensure adequate charging, adjustments to these charging parameters may be necessary on a quarterly basis. Typically, if specific gravity readings are low, a higher voltage charge is necessary. Specific gravity readings which are higher than normal indicate an overcharge, requiring an adjustment (lowering) in charge voltage. See Rolls Battery User Manual for more information.

REFER TO HIGHLIGHTED VOLTAGES BELOW WITH SYSTEMS USING TEMPERATURE COMPENSATION

Regular Cycling PSOC Recovery		0°C (32°F)	10°C (50°F)	20°C (68°F)	25°C (77°F)	30°C (86°F)	40°C (104°F)
2V	BULK & ABSORPTION CHARGE VOLTAGE	2.63 V	2.55 V	2.53 V	2.50 V	2.48 V	2.41 V
	FLOAT VOLTAGE	2.38 V	2.30 V	2.28 V	2.25 V	2.23 V	2.16 V
	EQUALIZATION VOLTAGE				2.60 - 2.65 V		
12V	BULK & ABSORPTION CHARGE VOLTAGE	15.75 V	15.30 V	15.15 V	15.00 V	14.85 V	14.45 V
	FLOAT VOLTAGE	14.25 V	13.80 V	13.65 V	13.50 V	13.35 V	12.95 V
	EQUALIZATION VOLTAGE				15.6 - 15.9 V		
24V	BULK & ABSORPTION CHARGE VOLTAGE	31.50 V	30.60 V	30.30 V	30.00 V	29.70 V	28.90 V
	FLOAT VOLTAGE	28.50 V	27.60 V	27.30 V	27.00 V	26.70 V	27.50 V
	EQUALIZATION VOLTAGE				31.2 - 31.8 V		
48V	BULK & ABSORPTION CHARGE VOLTAGE	63.00 V	61.20 V	60.60 V	60.00 V	59.40 V	57.80 V
	FLOAT VOLTAGE	57.00 V	55.50 V	54.60 V	54.00 V	53.40 V	55.00 V
	EQUALIZATION VOLTAGE				62.4 - 63.6 V		

Infrequent Cycling Back-up System		0°C (32°F)	10°C (50°F)	20°C (68°F)	25°C (77°F)	30°C (86°F)	40°C (104°F)
2V	BULK & ABSORPTION CHARGE VOLTAGE	2.58 V	2.50 V	2.48 V	2.45 V	2.43 V	2.40 V
	FLOAT VOLTAGE	2.38 V	2.30 V	2.28 V	2.25 V	2.23 V	2.20 V
	EQUALIZATION VOLTAGE				2.60 - 2.65 V		
12V	BULK & ABSORPTION CHARGE VOLTAGE	15.45 V	15.00 V	14.85 V	14.70 V	14.55 V	14.40 V
	FLOAT VOLTAGE	14.25 V	13.80 V	13.65 V	13.50 V	13.35 V	13.20 V
	EQUALIZATION VOLTAGE				15.6 - 15.9 V		
24V	BULK & ABSORPTION CHARGE VOLTAGE	30.90 V	30.00 V	29.70 V	29.40 V	29.10 V	28.80 V
	FLOAT VOLTAGE	28.50 V	27.60 V	27.30 V	27.00 V	26.70 V	26.40 V
	EQUALIZATION VOLTAGE				31.2 - 31.8 V		
48V	BULK & ABSORPTION CHARGE VOLTAGE	61.80 V	60.00 V	59.40 V	58.80 V	58.20 V	57.60 V
	FLOAT VOLTAGE	57.00 V	55.20 V	54.60 V	54.00 V	53.40 V	52.80 V
	EQUALIZATION VOLTAGE				62.4 - 63.6 V		

PURCHASE & INSTALLATION

QUANTITY:		MODEL:	
CUSTOMER:		PURCHASE DATE:	
PHONE:		INSTALLATION DATE:	
DISTRIBUTOR:		PHONE/EMAIL:	
INSTALLER:		PHONE/EMAIL:	
DATE CODE(S):			

SYSTEM & CHARGING PARAMETERS

SYSTEM VOLTAGE:	<input type="checkbox"/> 12V <input type="checkbox"/> 24V <input type="checkbox"/> 32V <input type="checkbox"/> 48V
CHARGE SOURCE:	
CHARGE OUTPUT:	AMPS
BULK VOLTAGE:	VOLTS
ABSORPTION VOLTAGE:	VOLTS
ABSORPTION TIME:	HH:MM
FLOAT VOLTAGE:	VOLTS
EQUALIZATION VOLTAGE:	VOLTS
EQUALIZATION TIME:	HH:MM

INITIAL BATTERY INSPECTION

INSPECTION CHECKLIST:	CHECK <input type="checkbox"/>	INSPECTION CHECKLIST: (cont'd)	CHECK <input type="checkbox"/>
No Shipping Damage	<input type="checkbox"/>	Cables (where applicable)	<input type="checkbox"/>
Batteries Clean & Dry	<input type="checkbox"/>	Specific Gravity	<input type="checkbox"/>
Electrolyte Levels	<input type="checkbox"/>	Voltage	<input type="checkbox"/>
Vent Caps	<input type="checkbox"/>	Terminal Polarity	<input type="checkbox"/>

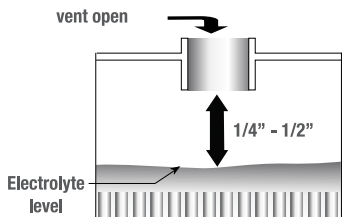
SPECIFIC GRAVITY

CHARGE	100%	75%	50%	25%	0%
SPECIFIC GRAVITY	1.255-1.275	1.215-1.235	1.180-1.200	1.155-1.165	1.110-1.130

ELECTROLYTE LEVEL

⚠ Caution: Do not add water or electrolyte to cells before initial charging unless plates are exposed. If so, add distilled water until plates are submerged. Please contact Rolls Technical Support if you have any questions or concerns.

Electrolyte should be kept at 1/4" - 1/2" below vent tube.



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INSPECTION

CHECKLIST:	CHECK <input type="checkbox"/>	CHECKLIST: (cont'd)	CHECK <input type="checkbox"/>
Batteries Clean & Dry	<input type="checkbox"/>	Terminals Connections	<input type="checkbox"/>
Vent Caps Tight	<input type="checkbox"/>	Hydrocaps	<input type="checkbox"/>
Electrolyte Levels Check & Top	<input type="checkbox"/>	Specific Gravity	<input type="checkbox"/>
Terminals Clean	<input type="checkbox"/>	Voltage	<input type="checkbox"/>

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INSPECTION

CHECKLIST:	CHECK <input type="checkbox"/>	CHECKLIST: (cont'd)	CHECK <input type="checkbox"/>
Batteries Clean & Dry	<input type="checkbox"/>	Terminals Connections	<input type="checkbox"/>
Vent Caps Tight	<input type="checkbox"/>	Hydrocaps	<input type="checkbox"/>
Electrolyte Levels Check & Top	<input type="checkbox"/>	Specific Gravity	<input type="checkbox"/>
Terminals Clean	<input type="checkbox"/>	Voltage	<input type="checkbox"/>

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Surrette
BATTERY COMPANY LIMITED

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BATTERY ENGINEERING

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