Discover®
Innovative Battery Solutions

SYSTEM APPLICATION:

- ☐ Grid Tied
- ☐ Off Grid
- ☐ Hybrid
- ☐ Backup

Wet/Flooded Battery Cell (2V)

Commissioning Log

Date:

Customer Name			
Customer Address			
Phone Number		Email	
Distributor/Dealer		Date of Purchase	
Company Address			
Phone Number		Email	

Battery Model				Installation Date	
Number of Batteries in Series		Number of Strings in Parallel		System Voltage	
Battery Date Code(s)				System Capacity (AH @20HR)	
				Low Voltage Disconnect (LVD)	
				Any additions/adjustments since battery install date	

CHARGE SOURCE(S):	Volts (V)	Watts (W)	Qty
RENEWABLE			
PV Panels			
Wind			
Other			
AC			
Generator			
Grid			
Other			

INVERTER/CHARGER INFORMATION:				
CHARGER(S)				
Make				
Model				
Output	Volts DC		Amps DC	
INVERTER(S)				
Make				
Model				
Input	Volts DC		Amps DC	

	CHARGE CONTROLLER SETTINGS			INVERTER/CHARGER SETTINGS	
	Volts (V)	Amps (A)	Time (HH:MM)	Volts (V)	Time (HH:MM)
Bulk					
Absorption					
Float					
Equalization					

TOTAL AVERAGE DAILY POWER CONSUMPTION:

KWH(AC)		KWH(DC)	
Number of Days Between Full Charge Cycle			

Details to your system information and user profile is mandatory to properly troubleshoot and ensure appropriate system set up. For assistance in completing non-battery related sections, please contact your system install/service technician and/or equipment manufacturer.

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Service Engineer (Company/Name):	Customer (Name):
Signature:	Signature:

Commissioning Log

Commissioning Date:

HAS A COMMISSIONING CHARGE BEEN PERFORMED? ☐Y ☐N

AMBIENT TEMPERATURE (°C or °F): _____

All readings should be taken with the battery stabilized on float charge. All specific gravity readings must be temperature corrected. Do not add water before readings are taken.
For charging parameters, please refer to our product user guide.
Readings taken from Pos(+) to Neg(-) end of battery string.

Cell #	Specific Gravity	Voltage	Cell #	Specific Gravity	Voltage	Cell #	Specific Gravity	Voltage	Cell #	Specific Gravity	Voltage
1			25			49			73		
2			26			50			74		
3			27			51			75		
4			28			52			76		
5			29			53			77		
6			30			54			78		
7			31			55			79		
8			32			56			80		
9			33			57			81		
10			34			58			82		
11			35			59			83		
12			36			60			84		
13			37			61			85		
14			38			62			86		
15			39			63			87		
16			40			64			88		
17			41			65			89		
18			42			66			90		
19			43			67			91		
20			44			68			92		
21			45			69			93		
22			46			70			94		
23			47			71			95		
24			48			72			96		

STATE OF CHARGE AS A MEASURE OF SPECIFIC GRAVITY AND OPEN CIRCUIT VOLTAGE:

Charge %	Specific Gravity	Cell Voltage
100%	1.255-1.260	2.10
75%	1.220-1.225	2.08
50%	1.200-1.205	2.05
25%	1.175-1.180	2.02
0%	1.145-1.150	1.98

COMMISSIONING CHARGE

A refresh charge (or "boost charge") is recommended before putting batteries into service. The recommended refresh charge parameters are as follows,

1. Charge current of 10-15A per 100 Ah C_{10} until 2.40 V/cell is reached (3-5 Hrs)
2. Charge at 5A per 100 Ah C_{10} V/cell for 14 hours (voltage exceeds 2.40 V/cell)
3. Rest 1 hour
4. Charge with 5A per 100 Ah C_{10} for 4 hours

INSPECTION CHECKLIST:

Terminal/Cable Connections	☐
Voltage/Specific Gravity	☐
Electrolyte (Between Min/Max Markers)	☐
Battery Container (No Shipping Damage/Leakage)	☐
Vent Cap/Float Vents (Good Condition, No Damage)	☐

Repeat steps 3 and 4 (max 5 times) until the following criteria is met,

1. All cells/blocks exceed 2.60 V/cell
2. Electrolyte density of each cell does not deviate more than ±0.015 kg/l from the average value

Notes:
Do not allow temperatures to exceed 55°C (131°F), continue operation when below 45°C (113°F).
Top up with demineralized water to upper electrolyte level mark
Electrolyte density must not differ more than 0.015 kg/l between cells

Additional Notes/Observations:

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