

□ Backup

# **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
		System Capacity (AH @20HR)
Battery Date Code(s)		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)	Volts (V)	Time (HH:MM)		
Bulk						
Absorption						
Float						
Equalization						

## TOTAL AVERAGE DAILY POWER CONSUMPTION:

KWH(AC)		KWH(DC)	
Number of Days Betwee	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.



Customer (Name): Signature:

# **Commissioning Log**

## HAS A COMMISSIONING CHARGE BEEN PERFORMED? DY DN AMBIENT TEMPERATURE (°C or °F):

## **Commissioning Date:**

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
	BATTERY 1	BATTERY 1 BATTERY 5		BATTERY 9		)	BATTERY 13				
1			25			49			73		
2			26			50		-	74		
3			27			51			75		
4			28			52		-	76		
5			29			53		-	77		
6			30			54			78		
	BATTERY 2			BATTERY 6			BATTERY 1	0		BATTERY 14	
7			31			55			79		
8			32			56			80		
9			33			57		_	81		
10			34			58			82		
11			35			59			83		
12			36			60			84		
	BATTERY 3			BATTERY 7		BATTERY 11 BATTERY 15					
13			37			61			85		
14			38			62			86		
15			39			63			87		
16			40			64			88		
17			41			65			89		
18			42			66			90		
	BATTERY 4			BATTERY 8			BATTERY 12	2		BATTERY 16	i
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	12 Volt
100%	1.255-1.260	2.10	12.60
75%	1.220-1.225	2.08	12.48
50%	1.200-1.205	2.05	12.30
25%	1.175-1.180	2.02	12.12
0%	1.145-1.150	1.98	11.88

#### 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) Charge at 5A per 100 Ah  $C_{10}$  V/cell for 14 hours (voltage
- 2. exceeds 2.40 V/cell) 3
- 4. Charge with 5A per 100 Ah  $\rm C_{\rm 10}$  for 4 hours
- Rest 1 hour

### **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 m

All cells/blocks exceed 2.60 V/cell 1

Electrolyte density of each cell does not deviate more than 2.

±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).  $\dot{\mbox{Top}}$  up with demineralized water to upper electrolyte level mark Electrolyte density must not differ more than 0.015 kg/l between cells

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Additional Notes/Observations: