

# SENS<sup>®</sup> Battery Charger Comparison

## NRG versus MG2

The summary is that the MicroGenius2 outperforms the NRG because it is a more efficient battery charger, is much smaller & lighter and has a weather proof enclosure.

Parameter	NRG	MicroGenius	MicroGenius benefit over NRG
Output ratings	12/24V, 10A, 20A	12/24V 6, 10, or 15A	More power in less space
Weight	25 lbs, 46 lbs	6 lbs	Easier installation, smaller space requirement
Charge mode control	2-rate, automatic control	Multi-rate, patented Dynamic Boost	Faster charging & less risk of overcharge
Housing	NEMA 1	NEMA 3R	Better water protection
Control system	Analog	Digital signal processor	More function
Warranty	3 years	3 years	
Battery life	2-3 years (standard)	2X conventional chargers	HELIX function boosts flooded battery life
Input voltage	115/208-240	Universal	
Input frequency	60 Hz (50 Hz costs extra)	50 or 60 Hz	No premium for 50 Hz operation
Agency approvals	C-UL, CE	C-UL, CE, CEC	MicroGenius meets CA efficiency laws
Alarm system	Standard	Optional (but Modbus standard)	
Display	Simple LED	20-character LCD (optional)	Much more information available
Modbus comms	None	Modbus RS-485 standard	Modbus available to customers
J-1939 integration	None	J-1939 standard	Cuts cost to integrate with control panel
Efficiency	83%	Up to 93%	MicroGenius runs cooler
Ambient temp rating	-40C to +60C	-40C to +70C	MicroGenius rated to higher max temps

*SENS<sup>®</sup> is recommending that all new applications adopt the MicroGenius2 as these models will have a much longer production life than the NRG models.*