

Leaver Industries

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Neptune

POWER

240V ac mains or generator supply
Available in 12V and 24Volt
15A, 30A, 60A and 120A units

PROTECTION

Circuit breakers on input and output
Over-temperature shutdown
Temp controlled fan cooling
Reverse Battery

CONTROL

3 individually regulated outputs
Automatic continuous operation
Charging current is steered to the most depleted battery
Electronic limiting of maximum voltage
Electronic current limiting

DISPLAY

LED indication of charging status
Add-on metering

BATTERIES

All type that accept a float charge

CABINET

Powder coated steel
Aluminium (optional)
Stainless Steel (304 and 316 optional)
Wall or bench mount
Compact





The WOODS NEPTUNE is a constant-voltage charger with three individually controlled outputs, allowing simultaneous charging of three separate battery banks.

This charger is ideal for marine applications, since one NEPTUNE charger will simultaneously maintain charge to a starboard engine-start battery, a port engine-start battery and a "house" or lighting battery.

The NEPTUNE chargers use precision analogue electronics to control rugged SCR devices. The maximum charging current is under electronic control, and steered to the most depleted battery. The maximum output voltage is regulated to 2.3 volts per cell, with easily fitted temperature compensation available as an option. Battery outlet #1 also features a BOOST mode. The NEPTUNE's charging status is indicated by LEDs, with voltage and current metering available as options.

NEPTUNE chargers are constructed with marine-grade powder-coated cases, and supplied with heavy-duty insulated binding posts.

NEPTUNE	1230N	1260N
Nominal Battery Voltage	12.00 Volts	12.00 Volts
Max. Output Current (ave)	30.00 Amps	60.00 Amps
Max. Output Current (RMS)	50.00 Amps	100.00 Amps
Max. Output Ripple (RMS)	1 Vac p-p	2 Vac p-p
Total Battery Capacity	60 Ah ~ 400 Ah	100 Ah ~ 800 Ah
Max. Load during recharge	12A dc	22A dc
Max. Regulated Voltage	13.80 Volts @ 25°C	13.80V @ 25°C
Max. Boost Voltage	14.50 Volts #	14.50 Volts #
Mains Supply Voltage	220~240Vac 50~60Hz	220~240Vac 50~60Hz
Maximum Consumption	750 VA	1500 VA
Minimum Genset (max output)	1500 VA	3000 VA
Tolerance to Mains Distortion	16% THD	16% THD
Mains Input Protection	1 x 10A Circuit Breaker	1 x 10A Circuit Breaker
Battery Output Protection	1 x 63A Circuit Breaker	3 x 63A Circuit Breaker
Temperature Protection:		
Transformer core	150°C	150°C
Rectifier assembly	100°C	100°C
Fan cooling	60° C	60° C
Temperature compensation	-3mV / cell / ° Celsius	-3mV / cell / ° Celsius
Temperature range	-10°C ~ 45°C	-10°C ~ 45°C
Connections : input	10A 3pin 2m cable *	10A 3pin 2m cable *
Connections : output	30A 2m Cables *	60A 2m Cables *
Cabinet Dimensions: WxDxH	270 x 270 x 270 mm	440 x 270 x 270 mm
Connections : cable min. size	6mm ² per 2m	10mm ² per2m
Mounting hole centres: W x H	250 x 120 mm	420 x 120 mm
Mounting hole size:	5/16 (8mm)	5/16 (8mm)
Cab	A	B
Weight	15Kg	27Kg
# Boost Charge is only available on outlet number 1		
* other option available		
METERS Temperature Compensation Cable Crank Inhibitor Relays		

NEPTUNE	2415N	2430N	2460N
Nominal Battery Voltage	24.00 Volts	24.00 Volts	24.00 Volts
Max. Output Current (ave)	30.00 Amps	30.00 Amps	60.00 Amps
Max. Output Current (RMS)	50.00 Amps	50.00 Amps	100.00 Amps
Max. Output Ripple (RMS)	1 Vac p-p	2 Vac p-p	3 Vac p-p
Total Battery Capacity	30 Ah ~ 200 Ah	60 Ah ~ 400 Ah	120 Ah ~ 800 Ah
Max. Load during recharge	5A dc	10A dc	20A dc
Max. Regulated Voltage	27.60 Volts @ 25°C	13.80V @ 25°C	13.80V @ 25°C
Max. Boost Voltage	29.50 Volts #	29.50 Volts #	29.50 Volts #
Mains Supply Voltage	220~240Vac 50~60Hz	220~240Vac 50~60Hz	220~240Vac 50~60Hz
Maximum Consumption	750 VA	1500 VA	3000 VA
Minimum Genset (max output)	1500 VA	3000 VA	6000 VA
Tolerance to Mains Distortion	16% THD	16% THD	16% THD
Mains Input Protection	1 x 10A Circuit Breaker	1 x 10A Circuit Breaker	1 x 20A Circuit Breaker
Battery Output Protection	1 x 32A Circuit Breaker	1 x 63A Circuit Breaker	3 x 63A Circuit Breaker
Temperature Protection:			
Transformer core	150°C	150°C	150°C
Rectifier assembly	100°C	100°C	100°C
Fan cooling	60° C	60° C	60° C
Temperature compensation	-3mV / cell / ° Celsius	-3mV / cell / ° Celsius	-3mV / cell / ° Celsius
Temperature range	-10°C ~ 45°C	-10°C ~ 45°C	-10°C ~ 45°C
Connections : input	10A 3pin 2m cable *	10A 3pin 2m cable *	15A 3pin 2m cable *
Connections : output	30A 2m Cables *	30A 2m Cables *	60A 2m Cables *
Cabinet Dimensions: WxDxH	270 x 270 x 270 mm	270 x 270 x 270 mm	440 x 270 x 270 mm
Connections : cable min. size	6mm ² per 2m	6mm ² per 2m	16mm ² per2m
Mounting hole centres: W x H	250 x 120 mm	250 x 120 mm	420 x 120 mm
Mounting hole size:	5/16 (8mm)	5/16 (8mm)	5/16 (8mm)
Cab	A	A	B
Weight	12Kg	16Kg	27Kg
# Boost Charge is only available on outlet number 1			
* other option available			
METERS Temperature Compensation Cable Crank Inhibitor Relays	