



Neptune

TRIPLE OUTLET AUTOMATIC LEAD-ACID BATTERY CHARGER



Features :

POWER

- 240V ac mains or generator supply
- Available in 12V, 24V, 30V, 36V and 48Volt
- 15A, 30A, 60A & 120A units

PROTECTION

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

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

- Any type that accepts a float charge

CABINET

- Marine grade
- Wall or bench mount
- 2metre mains

from.... **WOODS battery chargers**






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 analog 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 #3 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	12120N
Nominal Battery Voltage	12.00 Volts	12.00 Volts	12.00 Volts
Max. Output Current (ave)	30.00 Amps	60.00 Amps	120.00 Amps
Max. Output Current (RMS)	50.00 Amps	100.00 Amps	200.00 Amps
Max. Output Ripple (RMS)	1 Vac p-p	2 Vac p-p	3 Vac p-p
Total Battery Capacity	60 Ah ~ 400 Ah	100 Ah ~ 800 Ah	200 Ah ~ 1500 Ah
Max. Load during recharge	5A dc	10A dc	20A dc
Max. Regulated Voltage	13.80 Volts @ 25°C	13.80V @ 25°C	13.80V @ 25°C
Max. Boost Voltage	14.90 Volts *	14.90 Volts *	14.90 Volts *
Mains Supply Voltage	220~240Vac 50~60Hz	220~240Vac 50~60Hz	220~240Vac 50~60Hz
Maximum Consumption	750VA	1500VA	3000VA
Tolerance to Mains Distortion	16% THD	16% THD	16% THD
Mains Input Protection	10A Thermal/Magnetic manual reset	16A Thermal/Magnetic manual reset	20A Thermal/Magnetic manual reset
Battery Output Protection	63A Thermal/Magnetic manual reset breaker	3X40A ThermalMagnetic manual reset breaker	3X63A ThermalMagnetic manual reset breaker
Temperature Protection: Transformer core	150°C Normally closed - Auto reset	150°C Normally closed - Auto reset	150°C Normally closed - Auto reset
Temperature Protection: Rectifier ass'y	100°C Normally open - Auto reset	100°C Normally open - Auto reset	100°C Normally open - Auto reset
Temperature Protection: Fan cooling	60° C Normally open - Thermostat	60° C Normally open - Thermostat	60° C Normally open - Thermostat
Temperature compensation	-3mV / cell / ° Celcius	-3mV / cell / ° Celcius	-3mV / cell / ° Celcius
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	60A Binding posts	100A Binding posts	100A Binding posts
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	10mm ² per2m	16mm ² per2m
Mounting hole centres: W x H	250 x 120 mm	420 x 120 mm	420 x 120 mm
Mounting hole size:	5/16" (8mm)	5/16" (8mm)	5/16" (8mm)
			

* Outlet B3 only, is fitted with the BOOST facility.

NEPTUNE	2415N	2430N	2460N	24120N
Nominal Battery Voltage	24.00 Volts	24.00 Volts	24.00 Volts	24.00 Volts
Max Output Current (Ave)	15.00 Amps	30.00 Amps	60.00 Amps	120.00 Amps
Max Output Current (RMS)	25.00 Amps	50.00 Amps	100.00 Amps	200.00 Amps
Max Output Ripple (RMS)	1 Vac p-p	2 Vac p-p	3 Vac p-p	4 Vac p-p
Total Battery Capacity	30 Ah ~ 200 Ah	60 Ah ~ 600 Ah	100 Ah ~ 800 Ah	300 Ah ~ 1500 Ah
Max. Load during recharge	6.00 Amps	12.00 Amps	25.00 Amps	55.00 Amps
Max. Regulated Voltage	27.60 Volts @ 25°C	27.60 Volts @ 25°C	27.60 Volts @ 25°C	27.60 Volts @ 25°C
Max. Boost Voltage	29.80 Volts *	29.80 Volts *	29.80 Volts *	29.80 Volts *
Mains Supply Voltage	220 Vac ~ 240 Vac	220 Vac ~ 240 Vac	220 Vac ~ 240 Vac	220 Vac ~ 240 Vac
Mains Supply Frequency	50Hz ~ 60 Hz	50Hz ~ 60 Hz	50Hz ~ 60 Hz	50Hz ~ 60 Hz
Maximum Consumption (RMS)	750 VA	1500 VA	3000 VA	5000 VA
Minimum Genset (max output)	1500 VA	3000 VA	6000 VA	10000 VA
Tolerance to Mains Distortion	16% THD	16% THD	16% THD	16% THD
Mains Input Protection	10 Amps manual reset	16 Amps manual reset	20 Amps manual reset	32 Amps manual reset
Battery Output Protection	32 Amps manual reset	63 Amps manual reset	3x40 Amps manual reset	3x63 Amps manual reset
Temperature Protection: Transformer core	150° C Normally closed-Auto reset	150° C Normally closed-Auto reset	150° C Normally closed-Auto reset	150° C Normally closed-Auto reset
Temperature Protection: Rectifier ass'y	100° C Normally closed-Auto reset	100° C Normally closed-Auto reset	100° C Normally closed-Auto reset	100° C Normally closed-Auto reset
Temperature Protection: Fan Cooling	60° C Normally open - Thermostat	60° C Normally open - Thermostat	60° C Normally open - Thermostat	60° C Normally open - Thermostat
Temperature Compensation	-3mV / cell / ° Celcius	-3mV / cell / ° Celcius	-3mV / cell / ° Celcius	-3mV / cell / ° Celcius
Operating Temperature range	-10°C ~ 45°C	-10°C ~ 45°C	-10°C ~ 45°C	-10°C ~ 45°C
Connections : Input	10A 3pin 2m cable	10A 3pin 2m cable	10A 3pin 2m cable	10A 3pin 2m cable
Connections : Output	60A Binding posts	60A Binding posts	60A Binding posts	100A Binding posts
Connections : cable min. size	6mm ² per 2 meters	10mm ² per 2 meters	15mm ² per 2 meters	20mm ² per 2 meters
Cabinet Dimensions: LxWxD	270 x 270 x 270 mm	270 x 270 x 270 mm	440 x 270 x 270 mm	400 x 270 x 450 mm
Mounting Holes: LxW	250 x 120 mm	250 x 120 mm	420 x 120 mm	545 x 345 mm
Mounting Holes: size	5/16" (8mm)	5/16" (8mm)	5/16" (8mm)	3/8" (10mm)
Weight	15kg	25kg	40kg	60kg
				

* Outlet B3 only, is fitted with the BOOST facility.