



DIALOcharge

MANUALLY OPERATED MULTI-VOLTAGE LEAD-ACID BATTERY CHARGER



Features :

POWER

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

PROTECTION

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

CONTROL

- Manual operation
- Infinitely adjustable power control
- Electronic limiting of maximum voltage
- Electronic current limiting

DISPLAY

- Accurate output metering
- Ammeter and Voltmeter in one
- Wide angle visibility

BATTERIES

- Deep cycle LA
- Lead-calcium
- Wet ni-cad
- Genesis®/Optima®

CABINET

- Powder-coated steel cabinet
- Portable
- 2metre mains and battery cables

VERSATILE

- Use in parallel and/or series to increase power.

from.... **WOODS BATTERY CHARGERS**



The WOODS BATTERY CHARGERS DIALOcharge is a sophisticated electronic manually operated charger for most types of batteries. It employs a primary phase-shift controlled triac to precisely supply charging voltages and currents during the recharge cycle. The DIALOcharge successfully recovers deeply discharged batteries.

The DIALOcharge covers a variable range of battery voltages which provides charging flexibility in the workshop arena.

(eg: a 24V DIALOcharge will charge batteries of any voltage from single 2V cells to 24V systems)



Due to the precise power control provided by the DIALOcharge, it may be used for fast recharging of operational batteries or for overnight trickle charge situations.



DIALOcharge	D1230	D1260	D12120
Nominal Battery Voltage	12.00 Volts	12.00 Volts	12.00 Volts
Maximum Output Voltage	17.50 Volts	17.50 Volts	17.50 Volts
Max Output Current (Ave)	30.00 Amps	60.00 Amps	120.00 Amps
Max Output Current (RMS)	50.00 Amps	100.00 Amps	180.00 Amps
Max Output Ripple (RMS)	1 Vac p-p	2 Vac p-p	4 Vac p-p
Total Battery Capacity	60 Ah ~ 400 Ah	100 Ah ~ 800 Ah	300 Ah ~ 1500 Ah
Max. Load during recharge	12.00 Amps	25.00 Amps	55.00 Amps
Mains Supply Voltage	220 Vac ~ 240 Vac	220 Vac ~ 240 Vac	220 Vac ~ 240 Vac
Mains Supply Frequency	50Hz ~ 60 Hz	50Hz ~ 60 Hz	50Hz ~ 60 Hz
Maximum Consumption (RMS)	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	10 Amps manual reset	16 Amps manual reset	20 Amps manual reset
Battery Output Protection	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
Temperature Protection: Rectifier ass'y	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
Operating 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	200Amp Alligator Clips	200Amp Alligator Clips	200Amp Alligator Clips
Connections : cable min. size	6mm ² per 2 meters	10mm ² per 2 meters	15mm ² per 2 meters
Cabinet Dimensions: LxWxD	230 x 270 x 300 mm	230 x 270 x 300 mm	400 x 270 x 300 mm
Mounting Holes: LxW	210 x 120 mm	210 x 120 mm	380 x 120 mm
Mounting Holes: size	5/16" (8mm)	5/16" (8mm)	5/16" (8mm)
Weight	15kg	25kg	40kg
			

DIALOcharge	D2415	D2430	D2460	D24120
Nominal Battery Voltage	24.00 Volts	24.00 Volts	24.00 Volts	24.00 Volts
Maximum Output Voltage	35.00 Volts	35.00 Volts	35.00 Volts	35.00 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
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
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	20A 3pin 2m cable
Connections : Output	200Amp Alligator Clips	200Amp Alligator Clips	200Amp Alligator Clips	200Amp Alligator Clips
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	230 x 270 x 300 mm	230 x 270 x 300 mm	400 x 270 x 300 mm	400 x 270 x 450 mm
Mounting Holes: LxW	250 x 120 mm	250 x 120 mm	380 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
				

DIALOcharge	D3620	D3640	D3680
Nominal Battery Voltage	36.00 Volts	36.00 Volts	36.00 Volts
Maximum Output Voltage	52.50 Volts	52.50 Volts	52.50 Volts
Max Output Current (Ave)	20.00 Amps	40.00 Amps	80.00 Amps
Max Output Current (RMS)	35.00 Amps	70.00 Amps	140.00 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	100 Ah ~ 800 Ah
Max. Load during recharge	8.00 Amps	15.00 Amps	30.00 Amps
Mains Supply Voltage	220 Vac ~ 240 Vac	220 Vac ~ 240 Vac	220 Vac ~ 240 Vac
Mains Supply Frequency	50Hz ~ 60 Hz	50Hz ~ 60 Hz	50Hz ~ 60 Hz
Maximum Consumption (RMS)	1500 VA	3000 VA	6000 VA
Minimum Genset (max output)	3000 VA	6000 VA	12000 VA
Tolerance to Mains Distortion	16% THD	16% THD	16% THD
Mains Input Protection	10 Amps manual reset	16 Amps manual reset	20 Amps manual reset
Battery Output Protection	32 Amps manual reset	63 Amps manual reset	3x40 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
Temperature Protection: Rectifier ass'y	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
Operating 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	200Amp Alligator Clips	200Amp Alligator Clips	200Amp Alligator Clips
Connections : cable min. size	6mm ² per 2 meters	10mm ² per 2 meters	15mm ² per 2 meters
Cabinet Dimensions: LxWxD	230 x 270 x 300 mm	400 x 270 x 300 mm	400 x 270 x 450 mm
Mounting Holes: LxW	380 x 120 mm	380 x 120 mm	545 x 345 mm
Mounting Holes: size	5/16" (8mm)	5/16" (8mm)	3/8" (10mm)
Weight	25kg	40kg	60kg
			

DIALOcharge	D4815	D4830	D4860
Nominal Battery Voltage	48.00 Volts	48.00 Volts	48.00 Volts
Maximum Output Voltage	70.00 Volts	70.00 Volts	70.00 Volts
Max Output Current (Ave)	15.00 Amps	30.00 Amps	60.00 Amps
Max Output Current (RMS)	25.00 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	100 Ah ~ 800 Ah
Max. Load during recharge	6.00 Amps	12.00 Amps	25.00 Amps
Mains Supply Voltage	220 Vac ~ 240 Vac	220 Vac ~ 240 Vac	220 Vac ~ 240 Vac
Mains Supply Frequency	50Hz ~ 60 Hz	50Hz ~ 60 Hz	50Hz ~ 60 Hz
Maximum Consumption (RMS)	1500 VA	3000 VA	6000 VA
Minimum Genset (max output)	3000 VA	6000 VA	12000 VA
Tolerance to Mains Distortion	16% THD	16% THD	16% THD
Mains Input Protection	10 Amps manual reset	16 Amps manual reset	20 Amps manual reset
Battery Output Protection	32 Amps manual reset	63 Amps manual reset	3x40 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
Temperature Protection: Rectifier ass'y	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
Operating 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	200Amp Alligator Clips	200Amp Alligator Clips	200Amp Alligator Clips
Connections : cable min. size	6mm ² per 2 meters	10mm ² per 2 meters	15mm ² per 2 meters
Cabinet Dimensions: LxWxD	230 x 270 x 300 mm	400 x 270 x 300 mm	400 x 270 x 450 mm
Mounting Holes: LxW	380 x 120 mm	380 x 120 mm	545 x 345 mm
Mounting Holes: size	5/16" (8mm)	5/16" (8mm)	3/8" (10mm)
Weight	25kg	40kg	60kg
			

DIALOcharge	D7220	D7240
Nominal Battery Voltage	72.00 Volts	72.00 Volts
Maximum Output Voltage	105.00 Volts	105.00 Volts
Max Output Current (Ave)	20.00 Amps	40.00 Amps
Max Output Current (RMS)	33.00 Amps	66.00 Amps
Max Output Ripple (RMS)	6 Vac p-p	12 Vac p-p
Total Battery Capacity	40 Ah ~ 300 Ah	80 Ah ~ 600 Ah
Max. Load during recharge	8.00 Amps	15.00 Amps
Mains Supply Voltage	220 Vac ~ 240 Vac	220 Vac ~ 240 Vac
Mains Supply Frequency	50Hz ~ 60 Hz	50Hz ~ 60 Hz
Maximum Consumption (RMS)	3000 VA	6000 VA
Minimum Genset (max output)	6000 VA	12000 VA
Tolerance to Mains Distortion	16% THD	16% THD
Mains Input Protection	20 Amps manual reset	32 Amps manual reset
Battery Output Protection	40 Amps manual reset	63 Amps manual reset
Temperature Protection: Transformer core	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
Temperature Protection: Fan Cooling	60° C Normally open - Thermostat	60° C Normally open - Thermostat
Operating Temperature range	-10°C ~ 45°C	-10°C ~ 45°C
Connections : Input	10A 3pin 2m cable	15A 3pin 2m cable
Connections : Output	200Amp Alligator Clips	200Amp Alligator Clips
Connections : cable min. size	10mm ² per 2 meters	16mm ² per 2 meters
Cabinet Dimensions: LxWxD	400 x 270 x 300 mm	400 x 270 x 450 mm
Mounting Holes: LxW	380 x 120 mm	380 x 120 mm
Mounting Holes: size	5/16" (8mm)	5/16" (8mm)
Weight	40kg	60kg
		

DIALOcharge	D9615	D9630
Nominal Battery Voltage	96.00 Volts	96.00 Volts
Maximum Output Voltage	140.00 Volts	140.00 Volts
Max Output Current (Ave)	15.00 Amps	50.00 Amps
Max Output Current (RMS)	25.00 Amps	50.00 Amps
Max Output Ripple (RMS)	8 Vac p-p	15 Vac p-p
Total Battery Capacity	30 Ah ~ 200 Ah	60 Ah ~ 400 Ah
Max. Load during recharge	5.00 Amps	10.00 Amps
Mains Supply Voltage	220 Vac ~ 240 Vac	220 Vac ~ 240 Vac
Mains Supply Frequency	50Hz ~ 60 Hz	50Hz ~ 60 Hz
Maximum Consumption (RMS)	3000 VA	6000 VA
Minimum Genset (max output)	6000 VA	12000 VA
Tolerance to Mains Distortion	16% THD	16% THD
Mains Input Protection	20 Amps manual reset	32 Amps manual reset
Battery Output Protection	32 Amps manual reset	63 Amps manual reset
Temperature Protection: Transformer core	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
Temperature Protection: Fan Cooling	60° C Normally open - Thermostat	60° C Normally open - Thermostat
Operating Temperature range	-10°C ~ 45°C	-10°C ~ 45°C
Connections : Input	10A 3pin 2m cable	15A 3pin 2m cable
Connections : Output	200Amp Alligator Clips	200Amp Alligator Clips
Connections : cable min. size	10mm ² per 2 meters	16mm ² per 2 meters
Cabinet Dimensions: LxWxD	400 x 270 x 300 mm	400 x 270 x 450 mm
Mounting Holes: LxW	380 x 120 mm	380 x 120 mm
Mounting Holes: size	5/16" (8mm)	5/16" (8mm)
Weight	40kg	60kg
		

DIALOcharge - A cab

**D1230
D2415
D2430
D3620
D4815**



DIALOcharge - B cab

**D12120
D2460
D3640
D4830
D7220
D9615**



DIALOcharge - C cab

**D24120
D3680
D4860
D7240
D9630**

