



“Constavolt”

Marine Battery Charger

The La Marche model A41/A41F battery chargers are renowned throughout the industry like the Constavolt because of their reliability and their precise and constant output voltage to charge your batteries. These battery chargers can supply DC power for all ship board accessories while they simultaneously charge and keep your vessel batteries properly maintained. A wide range of A41/A41F Constavolt models are offered from 12 to 130 Volts DC to suit your needs. The Constavolt is a completely automatic, solid state, constant voltage battery charger built to carry continuous and intermittent loads up to 80% of its maximum rated output capacity.

Standard Features

- Magnetic Amplifier Circuitry
- Automatic DC Voltage Regulation
- Automatic AC Input Voltage Compensation +/- 10%
- Dual AC input and DC output fusing protects battery and charger
- Analog DC Ammeter
- DC Current Limiting Circuitry
- Charger design prevents battery from discharging if AC line fails
- AC to DC Isolation
- Model A41F is filtered for Valve-Regulated batteries
- USCG (United States Coast Guard) Accessories include a drip shield, On/Off switch & water tight connectors
- UL 1236 Listed
- 10-Year Limited Warranty

Environmental

- Operating Temperature: 0 to 50° C (32 to 122° F)
Storage Temperature: -40 to 85° C (-40 to 185° F)
Relative Humidity: 0 to 95% non-condensing

A41 / A41F Models

	Model Number All Models Available As A41F	DC Output			AC Input Current Draw* at 100% Load (Amps)			A41 Case No.	A41 Shipping Weight (Approximate)		A41F Case No.	A41F Shipping Weight (Approximate)	
		Amps	Volts	Fuse Size	A 120	D 208	B 240		lbs	kgs		lbs	kgs
12VDC 6L, 9 or 10NC	A41-10-12V	10	12V	20A	2.5	1.4	1.3	05	33	15.0	2	49	22.3
	A41-20-12V	20	12V	35A	5	2.9	2.5	2	57	25.9	7	69	31.4
	A41-30-12V	30	12V	50A	7.5	4.3	3.8	2	68	30.9	3	93	42.3
	A41-40-12V	40	12V	70A	10	5.8	5	2	78	35.5	4	137	62.3
	A41-60-12V	60	12V	100A	15	8.7	7.5	7	104	47.3	6	174	79.1
	A41-75-12V ⁽¹⁾	75	12V	130A	19	11	9.4	3	130	59.1	6	194	88.2
	A41-100-12V ⁽¹⁾	100	12V	150A	26	15	13	6	180	81.8	8A	225	102.3
24VDC 12L, 19 or 20NC	A41-10-24V	10	24V	20A	5	2.9	2.5	2	64	29.1	7	76	34.5
	A41-20-24V	20	24V	35A	10	5.8	5	2	76	34.5	7	88	40.0
	A41-30-24V	30	24V	50A	15	8.7	7.5	7	104	47.3	3	123	55.9
	A41-40-24V	40	24V	70A	21	12	10	7	146	66.4	3	177	80.5
	A41-60-24V	60	24V	100A	31	18	15	3	200	90.9	4	263	119.5
	A41-75-24V ⁽¹⁾	75	24V	130A	38	22	19	3	278	126.4	6	319	145.0
32VDC 16L	A41-10-32V	10	32V	20A	6.7	3.9	3.3	2	70	31.8	7	82	37.3
	A41-20-32V	20	32V	35A	14	7.7	6.7	2	75	34.1	3	93	42.3
	A41-30-32V	30	32V	50A	21	12	10	7	102	46.4	3	121	55.0
	A41-40-32V	40	32V	70A	27	16	14	3	190	86.4	4	237	107.7
	A41-60-32V	60	32V	100A	41	24	21	3	225	102.3	6	289	131.4
130 VDC 60L / 92N	A41-10-130V	10	130V	20A	26	15	13	3	165	75.0	4	183	87.7
	A41-20-130V	20	130V	35A	51	29	26	6	185	84.1	6	191	86.8

All above models designed for optimal performance at 60Hz. They will operate at 50Hz with reduced performance. Consult factory for units designed specifically at 50Hz. Please consult factory for other available cell ranges if desired range not shown. *AC Current Draws based @ 100% load and standard battery cells of 6L(12V),12L(24V),16L(32V),60L(130V). Maximum Current Draw is typically 140% of ratings shown.
(1) Units Not UL Listed.

Case Specifications

Case No.	Overall Dimensions						Cable Entry (when facing unit)		Mounting
	Width		Depth		Height		AC input	DC output	
	in	mm	in	mm	in	mm			
05	8.000	203	7.000	178	13.000	330	BOTTOM RIGHT	BOTTOM RIGHT	WALL
1	10.375	264	7.875	200	16.250	413	RIGHT	LEFT	WALL
2	12.812	326	10.000	254	17.125	435	RIGHT	LEFT	WALL
3	15.375	391	11.000	279	23.750	603	RIGHT	LEFT	WALL/FLOOR
4	19.000	483	15.000	381	25.875	657	RIGHT/TOP/BOTTOM	LEFT/TOP/BOTTOM	WALL/FLOOR/RACK
6	25.580	650	13.935	354	28.000	711	RIGHT/TOP/BOTTOM	LEFT/TOP/BOTTOM	WALL/FLOOR
7	14.250	362	10.625	270	19.875	505	RIGHT	LEFT	WALL/FLOOR
8A	27.200	691	15.250	387	32.500	826	RIGHT	LEFT	FLOOR

Case sizes may differ depending on optional accessories. Please consult factory when dimensions are critical. Dimensions shown above are overall footprint. Detailed dimension drawings are available for mounting purposes.

Model Number Nomenclature

A41(F) - 10 - 12V - () () 1 - () - ()

Model Number: A41(F)
DC Amps: 10
DC Volts: 12V
Factory Assigned Accessory Code: () ()
Battery Cell Range: 1
AC Phase Code: ()
AC Voltage Code: ()
Frequency: ()

Model Number	AC Voltage Codes	AC Phase Codes	Battery Cell Type Code
A41 - Unfiltered	A - 120	1 - Single Phase	12V - 6L, 9N, 10N
A41F - Filtered	D - 208 B - 240		24V - 12L, 19N, 20N 32V - 16L 130V - 60L, 92N

Optional External Charge Dividers

Model Number	Number of Batteries	DC Range		Case No.	Shipping Weight (Approximate)	
		Amps	Volts		lbs	kgs
CD40-20/30-12/32-N2	2	10-30	12-32	05	10	4.5
CD40-20/30-12/32-N3	3	10-30	12-32	05	11	5.0
CD40-40/60-12/32-N2	2	40-60	12-32	1	14	6.4
CD40-40/60-12/32-N3	3	40-60	12-32	1	15	6.8
CD40-75/100-12/32-N2	2	75-100	12-32	2	23	10.4
CD40-75/100-12/32-N3	3	75-100	12-32	2	25	11.3

Note: All above models are configured for Negative Common. For Positive Common, part number changes as follow: CD40-20/30-12/32-P2.

Optional Internal Charge Dividers

- 100 To charge 2 batteries with a negative common
- 10U To charge 2 batteries with a positive common
- 101 To charge 3 batteries with a negative common
- 10V To charge 3 batteries with a positive common

Note: Consult factory may increase case size.

Battery Charger Sizing Guidelines

- Required Battery Backup Time (Hours)
- DC Output Voltage
- Ampere Hour Capacity of Battery
- Allowable Recharge Time From Full Discharge (Hours), Where Applicable
- Continuous and Intermittent DC Loads (Amps) and Duration (Time)

Ordering Information When ordering, please specify:

- La Marche Model Number A41 or A41F
- DC Amps
- DC Volts
- Special Frequency, When Required
- AC Voltage Code
- AC Phase Code
- Battery Cell Type Code
- Optional Accessories (Option Code)