

POWER PRO

FERRORESONANT BATTERY CHARGERS

The Power Pro charger is fully automatic, available in both single and three phase, with three power ratings and provides line and load regulation for battery protection. It features four bright LED lights for easy identification of charging status, two manual push buttons for Equalize and Stop, back-up timers and AC fail recovery. The Power Pro is available in 100%, 80% and 60% output ratings.

- Automatic Equalize
- Back up timers for additional battery protection
- AC fail recovery
- 10-year transformer and diode warranty
- Three output ratings: 100%, 80% or 60%
- UL and cUL listed and meets BCI standards



POWERPRO 60 (60% CHARGED IN 8 HOURS)

Application		Model Number	DC Output amperes 2.13 V/cell	Phase	AC Input, Amperes			Approximate Weight	
Number of battery cells	Recommended battery ampere-hour range for 8 hour charge				"1-phase 120/208/240 volts"	1-phase 208/240/480 volts	3-phase 480/575	lb	kg
6	251 - 380	6-380FR60S	51	1	8.2/4.7/4.1	4.7/4.1/2.1		100	45
6	381 - 510	6-510FR60S	68	1		6.5/5.6/2.8	2.8/2.3	110	50
6	511 - 600	6-600FR60S	80	1		7.5/6.5/3.3	3.3/2.7	114	52
12	181 - 250	12-250FR60S	33	1		5.7/4.9/2.5	2.5/2.1	100	45
12	251 - 380	12-380FR60S	51	1	16.8/9.6/8.4	9.6/8.4/4.2	4.2/3.5	105	48
12	381 - 450	12-450FR60S	60	1		11.0/9.5/4.8	4.8/4.0	110	50
12	451 - 510	12-510FR60S	68	1		12.0/10.4/5.2	5.2/4.3	125	57
12	511 - 600	12-600FR60S	80	1		14.3/12.5/6.2	6.2/5.2	130	59
12	601 - 750	12-750FR60S	100	1		18.0/15.7/7.8	7.8/6.5	145	66
12	751 - 880	12-880FR60S	117	1		21.7/18.9/9.5	9.5/7.9	150	68
12	881 - 965	12-965FR60S	128	1		24.4/21.3/10.6	10.6/8.8	155	70
12	451 - 510	12-510FR60T	68	3		7.0/6.1/3.0	3.0/2.5	180	82
12	511 - 600	12-600FR60T	80	3		7.9/6.9/3.4	3.4/2.9	190	86
12	601 - 750	12-750FR60T	100	3		10.3/8.9/4.5	4.5/3.7	195	88
12	751 - 880	12-880FR60T	117	3		11.5/10.0/5.0	5.0/4.2	200	91
12	881 - 965	12-965FR60T	128	3		13.5/11.7/5.9	5.9/4.9	215	98
12	966 - 1,050	12-1050FR60T	140	3		13.5/11.7/5.9	5.9/4.9	240	109
12	1,051 - 1,260	12-1260FR60T	168	3		17.0/14.8/7.4	7.4/6.1	270	122
18	451 - 510	18-510FR60S	68	1		17.3/15.1/7.5	7.5/6.3	165	75
18	511 - 600	18-600FR60S	80	1		20.4/17.8/8.9	8.9/7.4	168	76
18	601 - 750	18-750FR60S	100	1		25.3/22.0/11.0	11.0/9.2	170	77
18	751 - 880	18-880FR60S	117	1		30.6/26.7/13.4	13.4/11.1	175	79
18	451 - 510	18-510FR60T	68	3		10.2/8.9/4.5	4.5/3.7	190	86
18	511 - 600	18-600FR60T	80	3		11.3/9.8/4.9	4.9/4.1	235	107
18	601 - 750	18-750FR60T	100	3		13.4/11.6/5.8	5.8/4.8	270	122
18	751 - 880	18-880FR60T	117	3		16.7/14.5/7.3	7.3/6.1	275	125
18	881 - 965	18-965FR60T	128	3		18.3/16.0/8.0	8.0/6.6	280	127
18	966 - 1,050	18-1050FR60T	140	3		18.9/16.5/8.3	8.3/6.9	285	129
18	1,051 - 1,260	18-1260FR60T	168	3		24.6/21.4/10.7	10.7/8.9	315	143
18	1,261 - 1,400	18-1400FR60T	186	3		27.9/24.3/12.1	12.1/10.1	320	145
24	451 - 510	24-510FR60S	68	1		22.3/19.5/9.7	9.7/8.1	170	77
24	511 - 600	24-600FR60S	80	1		27.1/23.6/11.8	11.8/9.8	175	79
24	601 - 750	24-750FR60S	100	1		36.1/31.5/15.7	15.7/13.1	185	84
24	751 - 880	24-880FR60S	117	1		19.6/17.1/8.5	8.5/7.1	270	122
24	451 - 510	24-510FR60T	68	3		21.4/18.6/9.3	9.3/7.8	305	138
24	511 - 600	24-600FR60T	80	3		24.1/21.0/10.5	10.5/8.7	320	145
24	601 - 750	24-750FR60T	100	3		26.7/26.2/11.6	11.6/9.7	325	147
24	751 - 880	24-880FR60T	117	3		34.6/30.1/15.1	15.1/12.5	350	159
40	511 - 600	40-600FR60T	80	3		23.4/20.4/10.2	10.2/8.5	315	143
40	601 - 750	40-750FR60T	100	3		32.7/28.5/14.3	14.3/11.9	355	161

POWERPRO 80 (80% CHARGED IN 8 HOURS)									
Application				AC Input, Amperes				Approximate Weight	
Number of battery cells	Recommended battery ampere-hour range for 8 hour charge	Model Number	DC Output amperes 2.13 V/cell	Phase	1-phase 120/208/240 volts*	1-phase 208/240/480 volts	3-phase 480/575	lb	kg
6	251 - 380	6-380FR80S	65	1	10.8/6.2/5.4	6.2/5.4/2.7	2.7/2.2	92	42
6	381 - 450	6-450FR80S	77	1	12.9/7.4/6.5	7.4/6.5/3.2	3.2/2.7	105	48
6	451 - 510	6-510FR80S	87	1		7.9/6.8/3.4	3.4/2.8	115	52
6	511 - 600	6-600FR80S	102	1		10.2/8.9/4.4	4.4/3.7	190	86
6	511 - 600	6-600FR80T	102	3		5.3/4.6/2.3	2.3/1.9	195	88
12	181 - 250	12-250FR80S	43	1	13.1/7.5/6.6	7.5/6.6/3.3	3.3/2.7	96	44
12	251 - 380	12-380FR80S	65	1	21.0/12.1/10.5	12.1/10.5/5.3	5.3/4.4	117	53
12	381 - 450	12-450FR80S	77	1		13.8/12.0/6.0	6.0/5.0	120	54
12	451 - 510	12-510FR80S	87	1		15.6/13.6/6.8	6.8/5.7	130	59
12	511 - 600	12-600FR80S	102	1		18.5/16.1/8.1	8.1/6.7	133	60
12	601 - 750	12-750FR80S	128	1		25.2/21.9/11.0	11.0/9.1	150	68
12	751 - 880	12-880FR80S	150	1		29.2/25.4/12.7	12.7/10.6	177	80
12	881 - 965	12-965FR80S	164	1		30.8/26.9/13.4	13.4/11.2	178	81
12	451 - 510	12-510FR80T	87	3		8.9/7.8/3.9	3.9/3.2	190	86
12	511 - 600	12-600FR80T	102	3		10.9/9.5/4.8	4.8/4.0	195	88
12	601 - 750	12-750FR80T	128	3		12.7/11.0/5.5	5.5/4.6	197	89
12	751 - 880	12-880FR80T	150	3		15.2/13.3/6.6	6.6/5.5	217	98
12	881 - 965	12-965FR80T	164	3		16.6/14.5/7.2	7.2/6.0	230	104
12	966 - 1,050	12-1050FR80T	171	3		17.5/15.2/7.6	7.6/6.3	246	112
12	1,051 - 1,260	12-1260FR80T	210	3		21.3/18.6/9.3	9.3/7.7	280	127
18	451 - 510	18-510FR80S	87	1		22.1/19.3/9.6	9.6/8.0	160	73
18	511 - 600	18-600FR80S	102	1		28.0/24.4/12.2	12.2/10.1	167	76
18	601 - 750	18-750FR80S	128	1		35.6/31.0/15.5	15.5/12.9	170	77
18	451 - 510	18-510FR80T	87	3		13.0/11.3/5.7	5.7/4.7	206	93
18	511 - 600	18-600FR80T	102	3		14.7/12.8/6.4	6.4/5.3	223	101
18	601 - 750	18-750FR80T	128	3		18.2/15.8/7.9	7.9/6.6	245	111
18	751 - 880	18-880FR80T	150	3		21.9/19.1/9.5	9.5/7.9	250	113
18	881 - 965	18-965FR80T	164	3		23.5/20.5/10.2	10.2/8.5	266	121
18	966 - 1,050	18-1050FR80T	171	3		25.8/22.5/11.2	11.2/9.3	275	125
18	1,051 - 1,260	18-1260FR80T	210	3		31.8/27.7/13.9	13.9/11.5	283	128
24	381 - 450	24-450FR80S	77	1		25.7/22.4/11.2	11.2/9.3	172	78
24	451 - 510	24-510FR80S	87	1		29.9/26.1/13.0	13.0/10.8	180	82
24	511 - 600	24-600FR80S	102	1		36.0/31.4/15.7	15.7/13.1	186	84
24	511 - 600	24-600FR80T	102	3		18.8/16.4/8.2	8.2/6.8	272	123
24	601 - 750	24-750FR80T	128	3		24.0/20.9/10.5	10.5/8.7	246	112
24	751 - 880	24-880FR80T	150	3		27.0/23.5/11.8	11.8/9.8	286	130
24	881 - 965	24-965FR80T	164	3		31.1/27.1/13.6	13.6/11.3	300	136
24	966 - 1,050	24-1050FR80T	171	3		35.0/30.5/15.3	15.3/12.7	317	144

POWERPRO 100 (100% CHARGED IN 8 HOURS)									
6	381 - 450	6-450FR100S	90	1	15.2/8.7/7.6	8.7/7.6/3.8	3.8/3.2	110	50
12	381 - 450	12-450FR100S	90	1		16.5/14.4/7.2	7.2/6.0	125	57
12	451 - 510	12-510FR100S	102	1		18.8/16.4/8.2	8.2/6.8	130	59
12	511 - 600	12-600FR100S	120	1		22.7/19.8/9.9	9.9/8.3	140	64
12	601 - 750	12-750FR100S	150	1		29.1/25.3/12.7	12.7/10.6	165	75
12	751 - 880	12-880FR100S	176	1		34.3/29.9/14.9	14.9/12.4	173	78
12	451 - 510	12-510FR100T	102	3		10.4/9.0/4.5	4.5/3.8	175	79
12	511 - 600	12-600FR100T	120	3		12.6/11.0/5.5	5.5/4.6	188	85
12	601 - 750	12-750FR100T	150	3		14.6/12.7/6.3	6.3/5.3	213	97
12	751 - 880	12-880FR100T	176	3		17.3/15.0/7.5	7.5/6.3	220	100
12	966 - 1,050	12-1050FR100T	210	3		20.8/18.1/9.1	9.1/7.5	228	103
18	381 - 450	18-450FR100S	90	1		24.5/21.4/10.7	10.7/8.9	140	64
18	451 - 510	18-510FR100S	102	1		27.5/24.0/12.0	12.0/10.0	150	68
18	511 - 600	18-600FR100S	120	1		31.1/27.1/13.5	13.5/11.3	160	73
18	451 - 510	18-510FR100T	102	3		14.7/12.8/6.4	6.4/5.3	212	96
18	511 - 600	18-600FR100T	120	3		17.0/14.8/7.4	7.4/6.2	222	101
18	601 - 750	18-750FR100T	150	3		21.1/18.3/9.2	9.2/7.6	226	103
18	751 - 880	18-880FR100T	176	3		26.5/23.1/11.5	11.5/9.6	263	119
18	881 - 965	18-965FR100T	193	3		29.1/25.4/12.7	12.7/10.6	266	121
18	966 - 1,050	18-1050FR100T	210	3		33.0/28.7/14.4	14.4/12.0	269	122
18	881 - 1,100	18-1100FR100T	220	3		34.7/30.3/15.1	15.1/12.6	283	128
18	1,051 - 1,200	18-1200FR100T	240	3		38.8/33.8/16.9	16.9/14.1	298	135
24	251 - 380	24-380FR100S	76	1		25.1/21.9/10.9	10.9/9.1	164	74
24	381 - 450	24-450FR100T	90	3		16.0/14.0/7.0	7.0/5.8	217	98
24	511 - 600	24-600FR100T	120	3		22.7/19.8/9.9	9.9/8.2	228	103
24	601 - 750	24-750FR100T	150	3		32.2/28.0/14.0	14.0/11.7	267	121
24	751 - 880	24-880FR100T	176	3		34.1/29.7/14.9	14.9/12.4	302	137
24	881 - 965	24-965FR100T	193	3		37.5/32.7/16.3	16.3/13.6	319	145

Maximum Performance

- The power conversion circuitry is designed to maximize battery life with its constantly tapering charge, automatically regulated by the “on charge” battery voltage. The output current of the charger is determined by the state of discharge of the battery. The battery is precisely charged based on its depth of discharge.
- Service 6, 12, 18, 24 or optional cell sizes by easily selecting the cell size that matches the charger through the cell selector switches located on the PC board. The charger has the ability to reject batteries that do not match the charger, which provides additional protection for the battery.
- When the battery is connected to the charger, Power Pro control will provide a five-second delay to check for proper connection before it automatically begins the charging operation. Once charging is complete, it will automatically terminate the operation and the “Charge Complete” LED will illuminate.
- Automatically provides an equalize charge of three hours beyond the normal charge on every fifth cycle. Pressing the “Equalize” key at any time during an equalize charge cycle will deselect the equalize function for that cycle. When the automatic equalize function is selected, the manual push-button is disabled to prevent unnecessary equalize charges.
- If the battery and charger are left connected for 72 hours after the initial completed charge, the charger will provide a refresh charge to ensure a fully charged battery when needed.
- Equipped with two back-up timers for additional battery protection. These timers terminate the charge if the battery is not 80% charged in 10 hours or if the charge is not completed within 5 hours of reaching 80% charged.

Benefits

- Utilizes a patented charge termination technique, DV/DT or rate of change of battery voltage with respect to time, with proportional time (PT) to determine when to terminate a charge cycle. The length of time it takes the battery to reach the 80% charged point determines the sampling rate. This termination method ensures a precise charge every time, never under or over charging. Used in conjunction with the tapered curve of ferroresonant chargers ensures the rate of change for both battery voltage and current always provides an efficient and accurate termination of charge.
- Designed to resume charge cycle at the point it stopped if there is an AC Power interruption.
- UL and cUL listed.
- Minimize repair costs with our 10-year original purchaser warranty on power transformers and diodes and 1-year on all other components.

WORLD HEADQUARTERS

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