

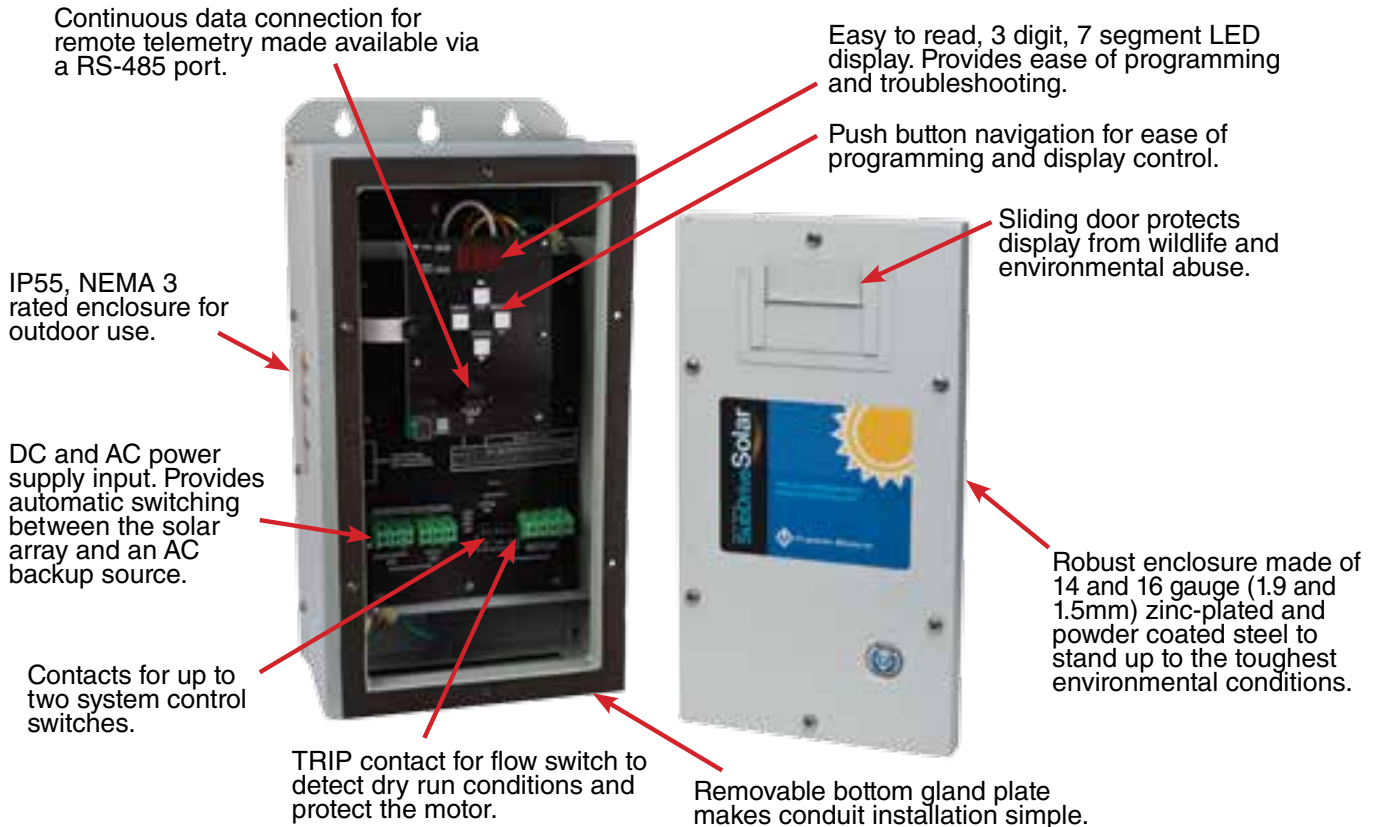
SubDrive SOLAR PAK

SOLAR PUMPING SYSTEM



SubDrive SOLARPAK

SOLAR PUMPING SYSTEM



Applications

- Livestock watering
- Tank/Cistern filling
- Wildlife refuge & game farms
- Rural water supply for ranches, cabins, and cottages
- Irrigation systems
- Fountains
- Vineyards
- Renewable energy projects

Built-in Diagnostics and Protection

The SubDrive SolarPAK products include diagnostic features and built-in protection from potentially harmful conditions.

- Surge
- Underload
- Undervoltage
- Locked pump
- Open circuit
- Short circuit
- Overheated controller
- Dry run
- Reverse polarity



All-in-One Package

The SubDrive SolarPAK is the System Solution for solar pumping requirements. Using Franklin Electric's quality components, our technical expertise in groundwater pumping, and innovative thinking based on global market inputs, we have developed a rugged, high-output system which tackles the challenges of remote and harsh environments. No other system delivers the features, benefits, and reliability of SubDrive SolarPAK in just one package!

The SubDrive SolarPAK includes:

- Franklin Electric 4" submersible motor
- Franklin Electric 4" submersible pump
- SubDrive Solar controller
- Flow switch with 30 ft (10 m) cable
- Variety of flow rates available in: 5, 7, 10, 15, 25, 45, and 90 US GPM (18, 25, 30, 45, 70, 150, and 270 lpm)
- Motor and drive ratings available in: 1.5 and 3.0 hp (1.1 and 2.2 kW)

Features

- High flow system for faster tank fill and significant water output
- Proven motor and pump technology for long-term reliability
- Robust IP55, NEMA 3 drive enclosure minimizes impact of wildlife, insects, dust, and weather
- DC and AC power inputs with auto-switching between the solar array and an AC backup source
- Seven segment controller display shows real-time input watts and system status
- Remote telemetry capability through a RS-485 continuous data port
- MPPT – Max Power Point Tracking for maximizing efficiency of input power
- Soft start feature prevents water hammer and increases system life
- Allows use of new solar array or retrofit to existing array (subject to size and performance check)
- Simple installation and no required maintenance
- Built-in diagnostics and protection
- C-tick and UL approved



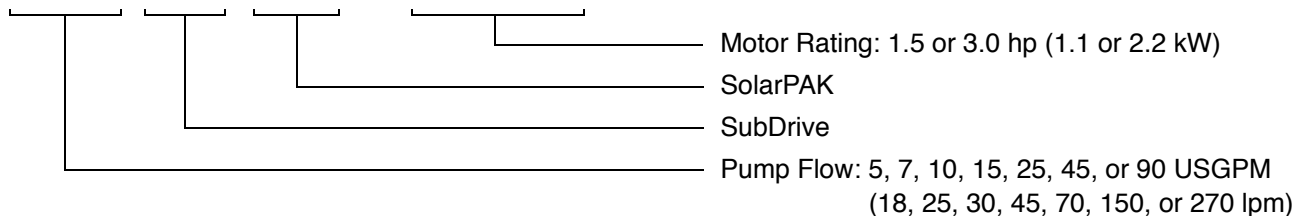
Ordering Information

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Model Number Description

XXX SD SP - X.XHP



SubDrive SolarPAK Model Numbers

SolarPAK - NPT		SubDrive Solar Controller		Solar Pump - NPT				Motor		Flow Switch	
SolarPAK Model	Order No.	Drive Model	Part No.	US GPM	Stages	Solar Pump	Part No.	HP	Part No.	Model	Part No.
5SDSP-1.5HP	90040520	SD Solar 1.1KW N3	5870301113	5	30	5SL15S4-PE	90020507	1.5	2345049203S	C25	226014102
7SDSP-3.0HP	90040730	SD Solar 2.2KW N3	5870301223	7	30	7SL2S4-PE	90020710	3.0	2343062604	C25	226014102
10SDSP-1.5HP	90041020	SD Solar 1.1KW N3	5870301113	10	18	10SL2S4-PE	90021010	1.5	2345049203S	C25	226014102
10SDSP-3.0HP	90041030	SD Solar 2.2KW N3	5870301223	10	18	10SL2S4-PE	90021010	3.0	2343062604	C25	226014102
15SDSP-1.5HP	90041520	SD Solar 1.1KW N3	5870301113	15	15	15SL2S4-PE	90021510	1.5	2345049203S	C25	226014102
15SDSP-3.0HP	90041530	SD Solar 2.2KW N3	5870301223	15	15	15SL2S4-PE	90021510	3.0	2343062604	C25	226014102
25SDSP-1.5HP	90042520	SD Solar 1.1KW N3	5870301113	25	10	25SL2S4-PE	90022510	1.5	2345049203S	F21	226019102
25SDSP-3.0HP	90042530	SD Solar 2.2KW N3	5870301223	25	10	25SL2S4-PE	90022510	3.0	2343062604	F21	226019102
45SDSP-1.5HP	90044520(a)	SD Solar 1.1KW N3	5870301113	45	7	45SL2S4-PE	90024510	1.5	2345049203S	F21	226019102
45SDSP-3.0HP	90044530(a)	SD Solar 2.2KW N3	5870301223	45	7	45SL2S4-PE	90024510	3.0	2343062604	F21	226019102
90SDSP-1.5HP	90049020(a)	SD Solar 1.1KW N3	5870301113	90	5	90SL2S4-PE	90029010	1.5	2345049203S	F21	226019102
90SDSP-3.0HP	90049030(a)	SD Solar 2.2KW N3	5870301223	90	5	90SL2S4-PE	90029010	3.0	2343062604	F21	226019102

SolarPAK - BSPP		SubDrive Solar Controller		Solar Pump - BSPP				Motor		Flow Switch	
SolarPAK Model	Order No.	Drive Model	Part No.	LPM	Stages	Solar Pump	Part No.	KW	Part No.	Model	Part No.
18SDSP-1.1KW	90030520	SD Solar 1.1KW N3	5870301113	18	30	18SL1S4-PEXB	90020508	1.1	2345049203S	C25	226014101
25SDSP-2.2KW	90030730	SD Solar 2.2KW N3	5870301223	25	30	25SL15S4-PEXB	90020711	2.2	2343062604	C25	226014101
30SDSP-1.1KW	90031020	SD Solar 1.1KW N3	5870301113	30	18	30SL15S4-PEXB	90021011	1.1	2345049203S	C25	226014101
30SDSP-2.2KW	90031030	SD Solar 2.2KW N3	5870301223	30	18	30SL15S4-PEXB	90021011	2.2	2343062604	C25	226014101
45SDSP-1.1KW	90031520	SD Solar 1.1KW N3	5870301113	45	15	45SL15S4-PEXB	90021511	1.1	2345049203S	C25	226014101
45SDSP-2.2KW	90031530	SD Solar 2.2KW N3	5870301223	45	15	45SL15S4-PEXB	90021511	2.2	2343062604	C25	226014101
70SDSP-1.1KW	90032520	SD Solar 1.1KW N3	5870301113	70	10	70SL15S4-PEXB	90022511	1.1	2345049203S	F21	226019101
70SDSP-2.2KW	90032530	SD Solar 2.2KW N3	5870301223	70	10	70SL15S4-PEXB	90022511	2.2	2343062604	F21	226019101
150SDSP-1.1KW	90034520(a)	SD Solar 1.1KW N3	5870301113	150	7	150SL15S4-PEXB	90024511	1.1	2345049203S	F21	226019101
150SDSP-2.2KW	90034530(a)	SD Solar 2.2KW N3	5870301223	150	7	150SL15S4-PEXB	90024511	2.2	2343062604	F21	226019101
270SDSP-1.1KW	90039020(a)	SD Solar 1.1KW N3	5870301113	270	5	270SL15S4-PEXB	90029011	1.1	2345049203S	F21	226019101
270SDSP-2.2KW	90039030(a)	SD Solar 2.2KW N3	5870301223	270	5	270SL15S4-PEXB	90029011	2.2	2343062604	F21	226019101

* An-30 foot (10 meter) cable for use with the flow switch is included in the controller packaging

** 316SS Motors available on request

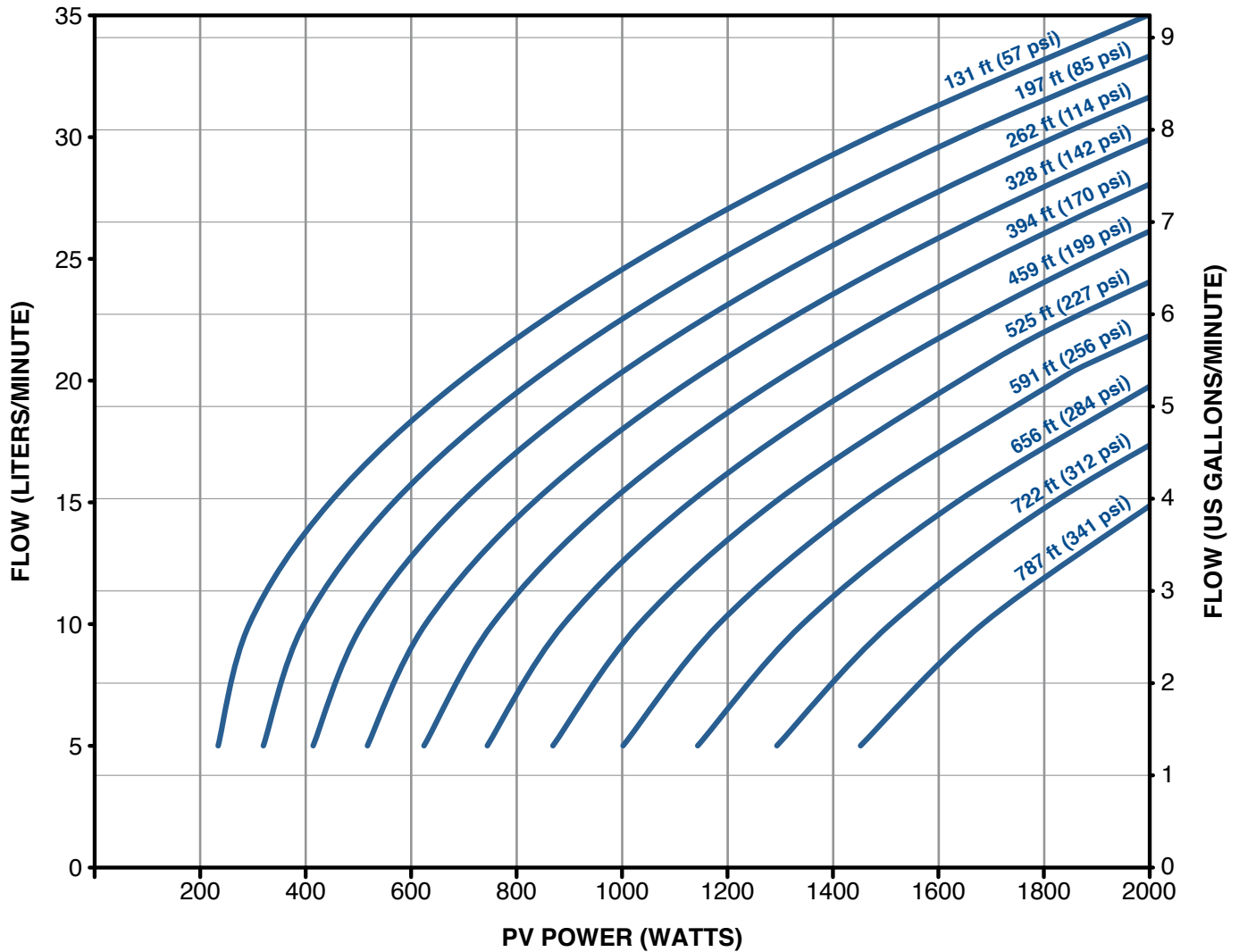
*** Motors shown above include an individual conductor lead installed in the motor. For replacement motors without a lead use part numbers: 1.5 hp / 1.1 kW (2345049203S) and 3.0 hp / 2.2 kW (2343062604)

(a) High capacity pumps, 45 US GPM (150 lpm) and higher, in a SolarPAK are not supplied with an internal check valve.

Pump Performance

5SDSP-1.5HP

SubDrive Solar 1.5 hp Control, 5 US GPM 1.5 hp Pump End, 1.5 hp Motor



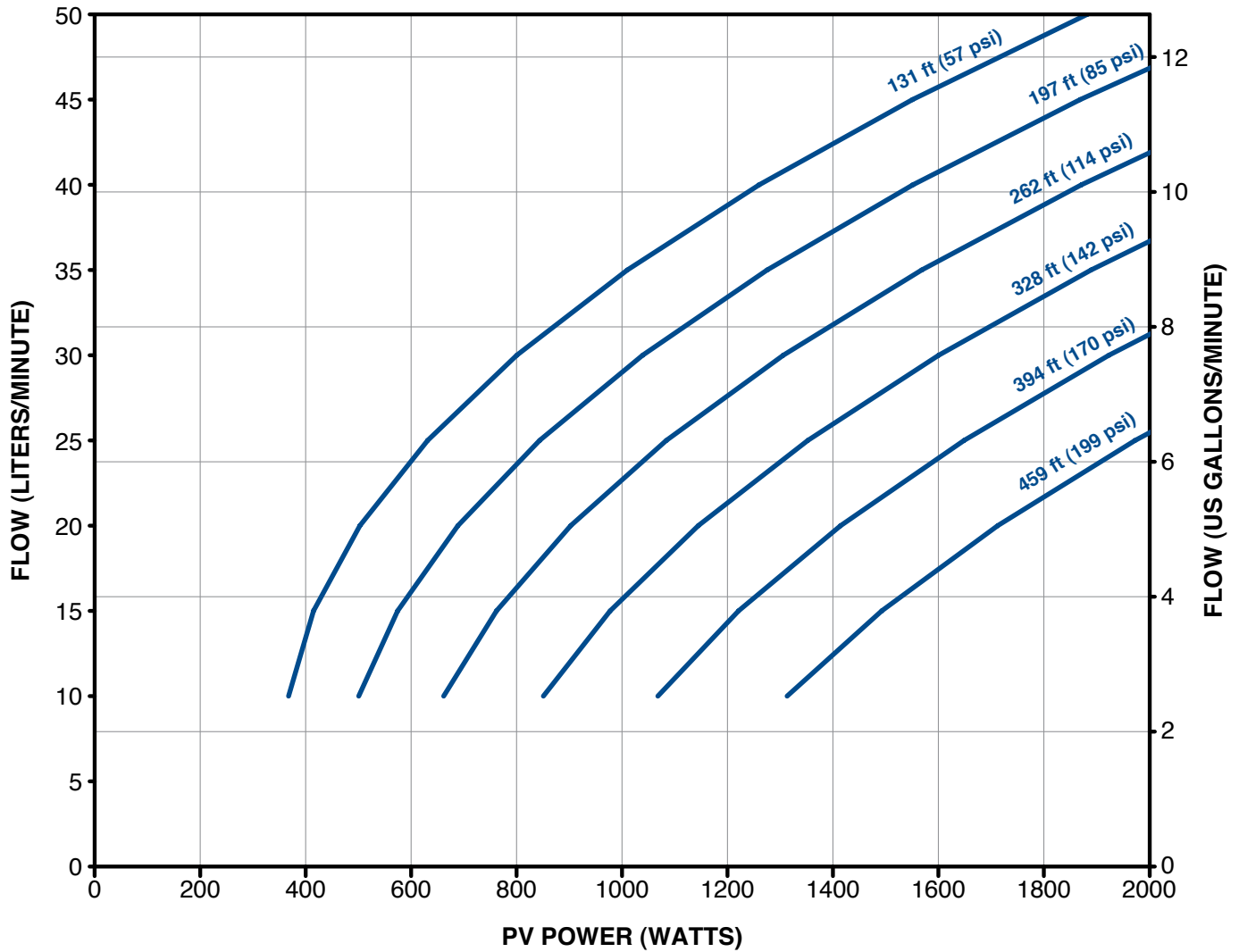
PV Power (Watts)									
	400	600	800	1000	1200	1400	1600	1800	2000
TDH (ft)	Flow (US GPM)								
131	4	5	6	7	7	8	8	9	9
197	3	4	5	6	7	7	8	8	9
262		3	4	5	6	7	7	8	8
328		2	4	5	6	6	7	7	8
394			3	4	5	6	6	7	7
459			2	3	4	5	6	6	7
525				2	4	4	5	6	6
591					3	4	4	5	6
656					2	3	4	5	5
722						2	3	4	5
787							2	3	4

*Refer to Drive Specifications table on page 16 for PV source power and voltage recommended operating ranges

Pump Performance

10SDSP-1.5HP

SubDrive Solar 1.5 hp Control, 10 US GPM 2.0 hp Pump End, 1.5 hp Motor



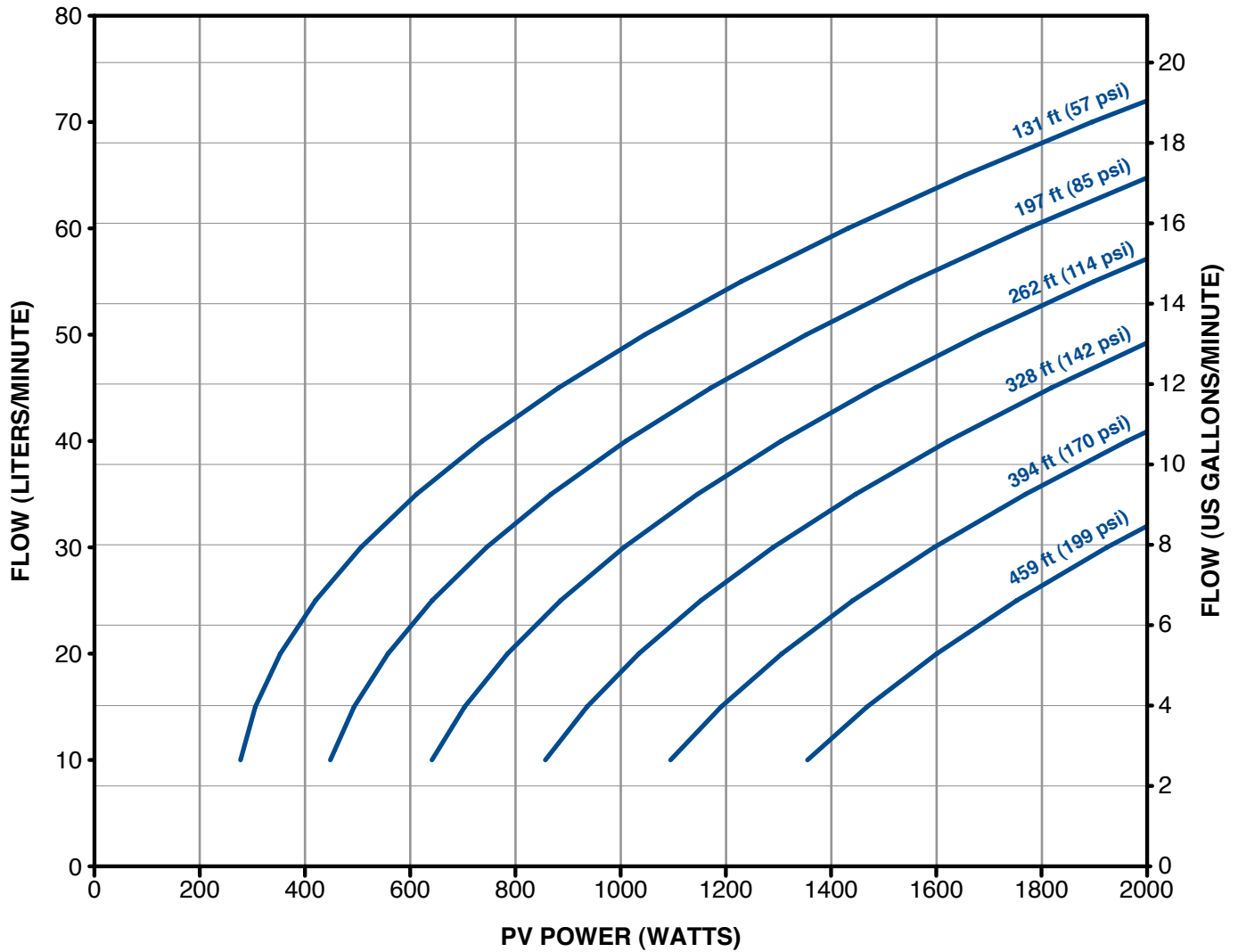
PV Power (Watts)									
	400	600	800	1000	1200	1400	1600	1800	2000
TDH (ft)	Flow (US GPM)								
131	4	6	8	9	10	11	12	13	
197		4	6	8	9	10	11	12	12
262			4	6	7	8	10	10	11
328				4	6	7	8	9	10
394					5	5	6	7	8
459						4	5	6	7

*Refer to Drive Specifications table on page 16 for PV source power and voltage recommended operating ranges

Pump Performance

15SDSP-1.5HP

SubDrive Solar 1.5 hp Control, 15 US GPM 2.0 hp Pump End, 1.5 hp Motor



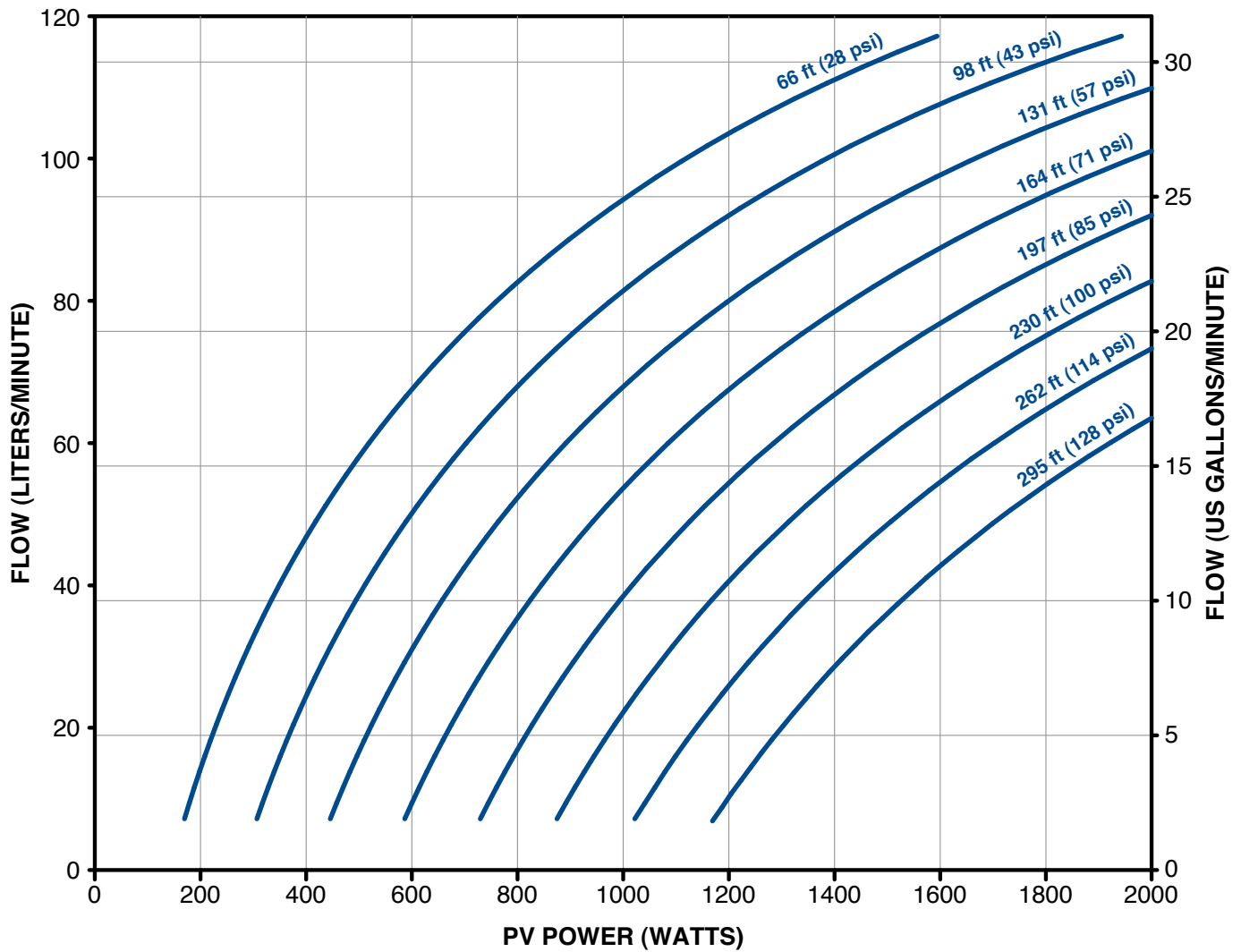
PV Power (Watts)									
	400	600	800	1000	1200	1400	1600	1800	2000
TDH (ft)	Flow (US GPM)								
131	6	9	11	13	14	16	17	18	
197		6	9	11	12	13	15	16	17
262			6	8	10	11	13	14	15
328				5	7	9	10	12	13
394					4	6	8	10	11
459						3	5	7	8

*Refer to Drive Specifications table on page 16 for PV source power and voltage recommended operating ranges

Pump Performance

25SDSP-1.5HP

SubDrive Solar 1.5 hp Control, 25 US GPM 2.0 hp Pump End, 1.5 hp Motor



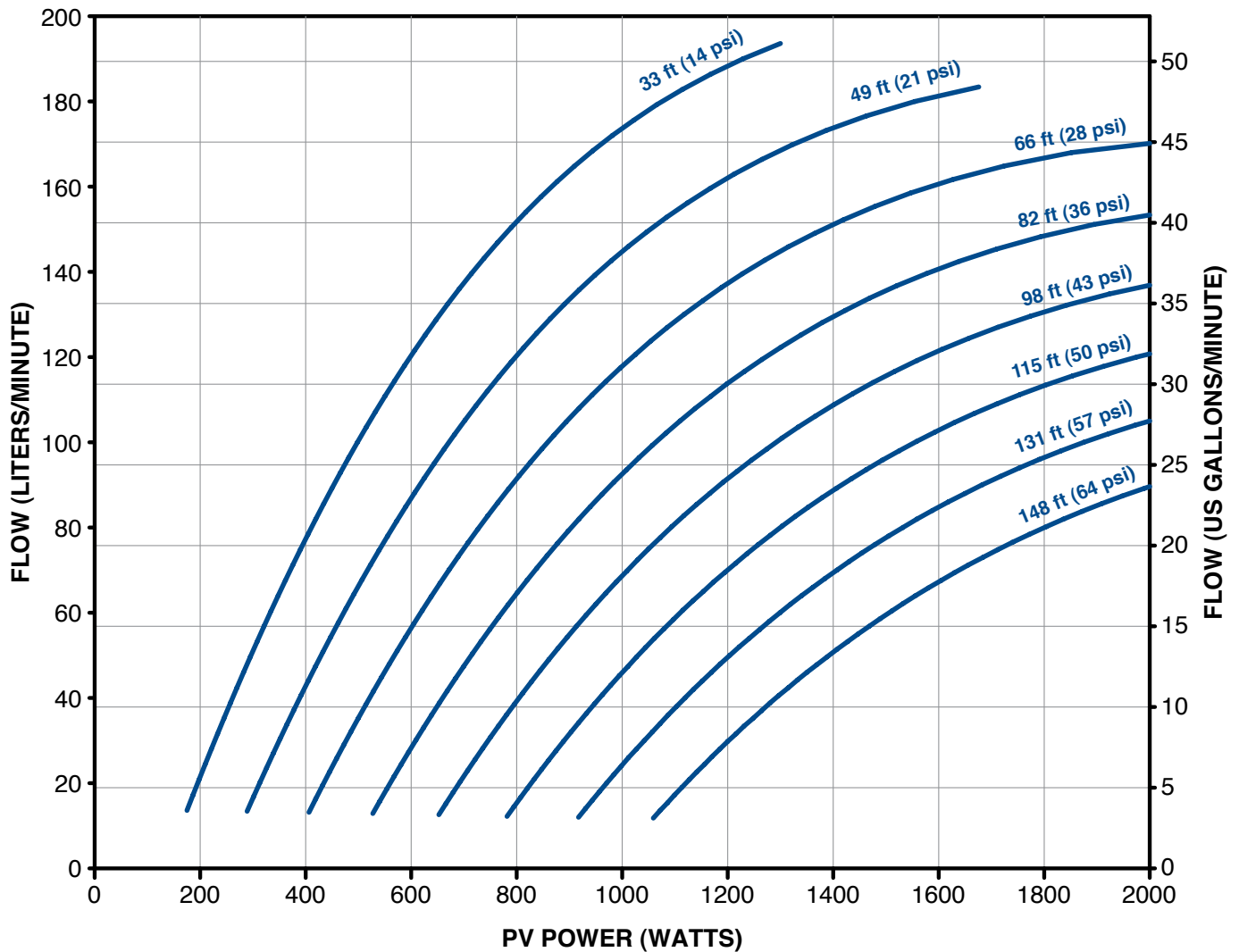
PV Power (Watts)									
	400	600	800	1000	1200	1400	1600	1800	2000
TDH (ft)	Flow (US GPM)								
66	12	18	22	25	27	29	31		
98	7	13	18	21	24	27	29	30	
131		8	14	18	21	24	26	28	29
164		3	9	14	18	21	23	25	27
197			4	10	15	18	20	22	24
230				6	11	15	17	20	22
262					7	11	15	17	19
295					3	7	11	14	17

*Refer to Drive Specifications table on page 16 for PV source power and voltage recommended operating ranges

Pump Performance

45SDSP-1.5HP

SubDrive Solar 1.5 hp Control, 45 US GPM 2.0 hp Pump End, 1.5 hp Motor



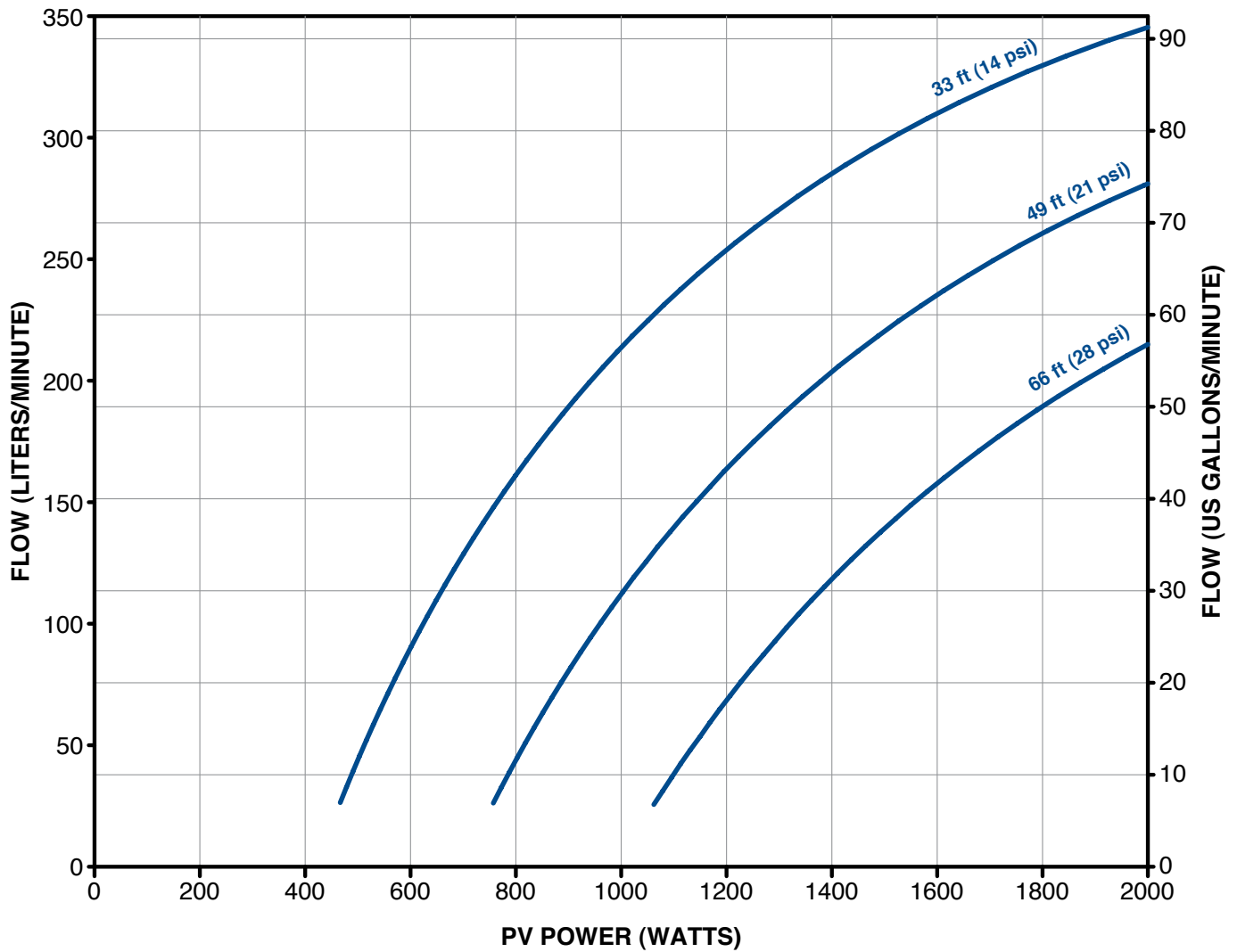
PV Power (Watts)									
	400	600	800	1000	1200	1400	1600	1800	2000
TDH (ft)	Flow (US GPM)								
33	20	32	40	46	50				
49	11	23	32	38	43	46	48		
66	3	15	24	31	36	40	43	44	45
82		7	17	25	30	34	37	39	41
98			10	18	24	29	32	34	36
115			4	12	18	23	27	30	32
131				7	13	18	22	25	28
148					8	13	18	21	24

*Refer to Drive Specifications table on page 16 for PV source power and voltage recommended operating ranges

Pump Performance

90SDSP-1.5HP

SubDrive Solar 1.5 hp Control, 90 US GPM 2.0 hp Pump End, 1.5 hp Motor



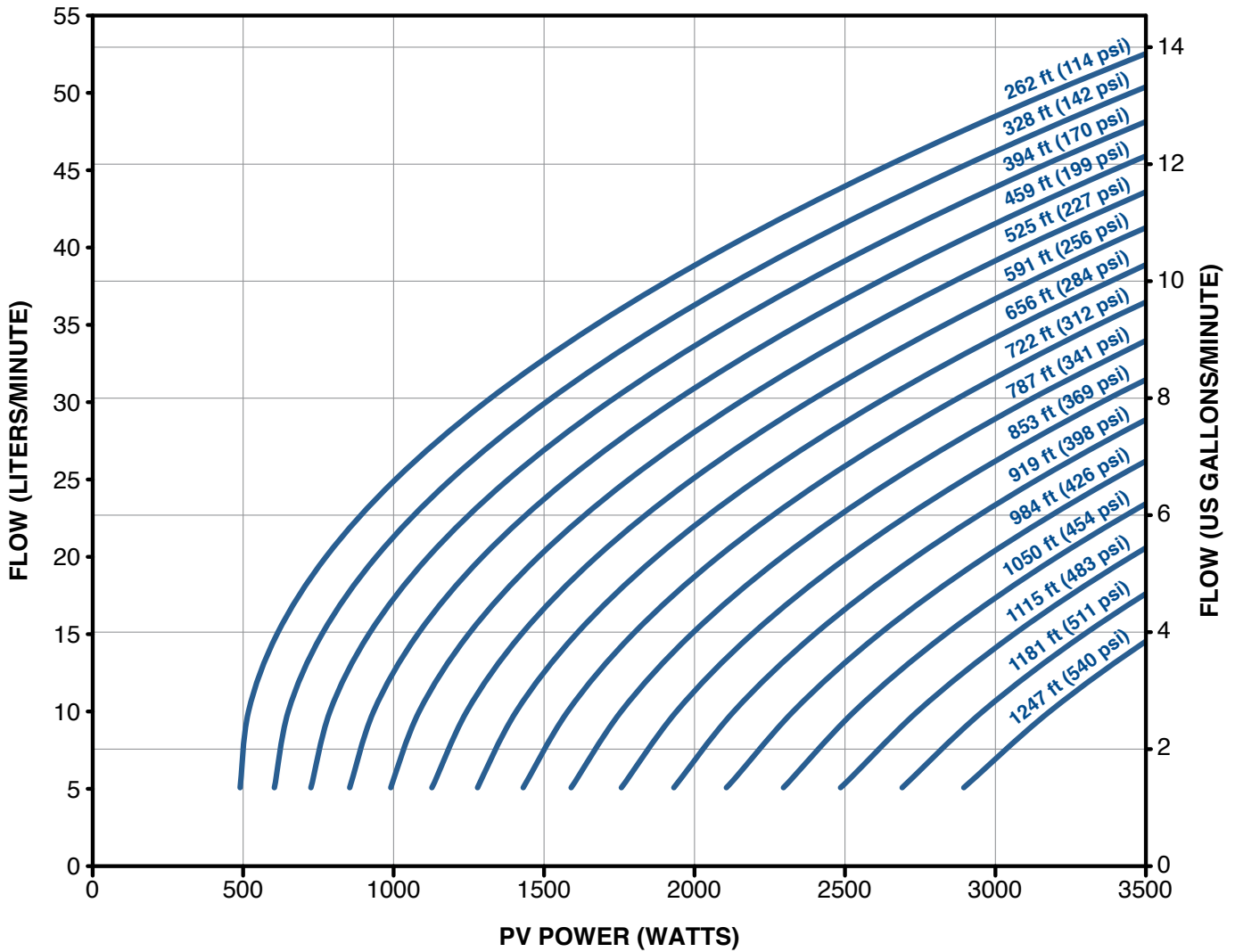
PV Power (Watts)									
	400	600	800	1000	1200	1400	1600	1800	2000
TDH (ft)	Flow (US GPM)								
33		24	43	57	67	75	82	87	91
49			12	30	43	54	62	69	74
66				18	31	41	50	57	57

*Refer to Drive Specifications table on page 16 for PV source power and voltage recommended operating ranges

Pump Performance

7SDSP-3.0HP

SubDrive Solar 3.0 hp Control, 7 US GPM 2.0 hp Pump End, 3.0 hp Motor



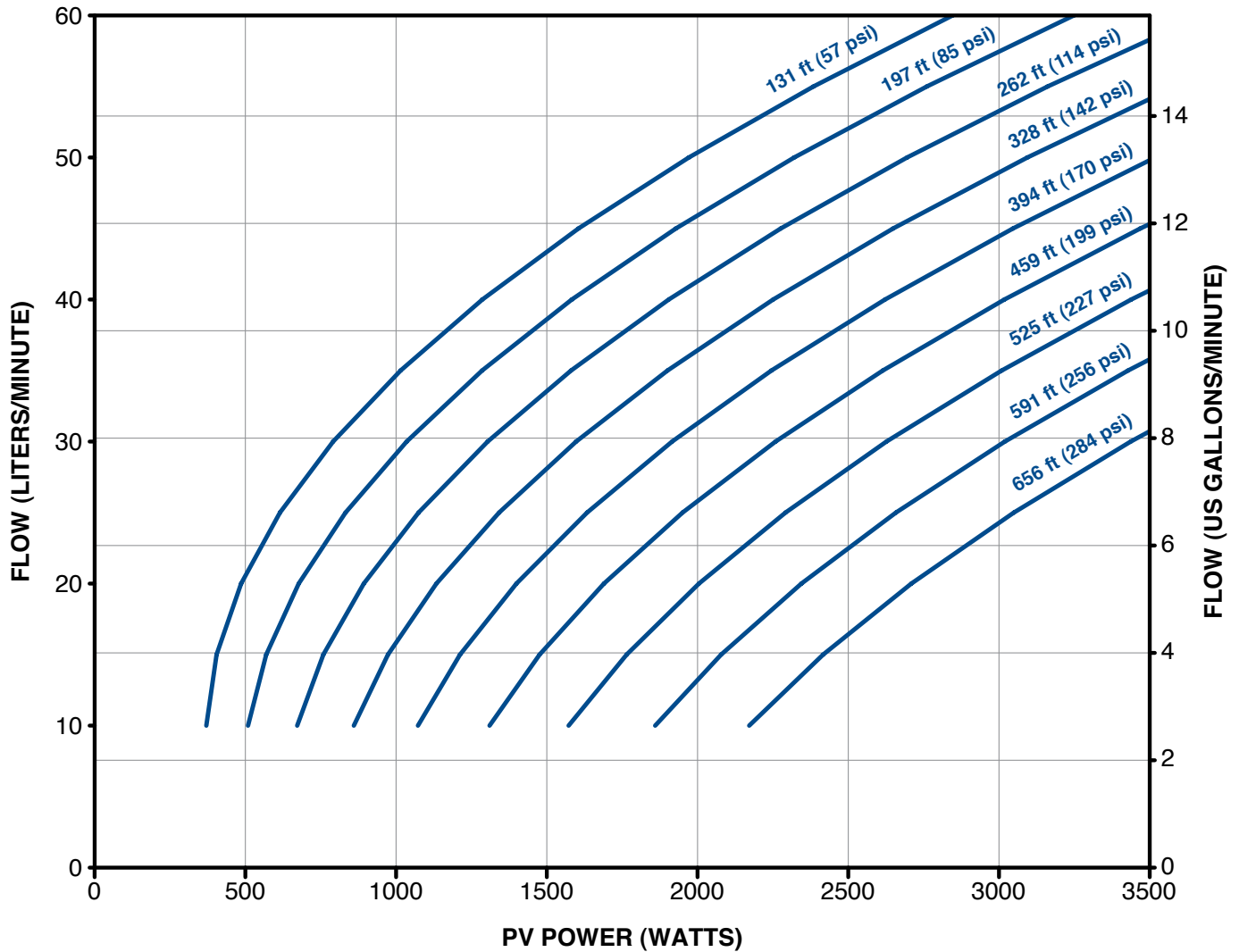
PV Power (Watts)												
	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500
TDH (ft)	Flow (US GPM)											
262	5	7	8	9	9	10	11	12	12	13	13	14
328	4	6	7	8	9	10	10	11	12	12	13	13
394	2	5	6	7	16	9	10	10	11	12	12	13
459		3	5	6	7	8	9	10	10	11	12	12
525		2	4	5	6	7	8	9	10	10	11	12
591			3	4	6	7	8	9	10	10	10	11
656				3	5	6	7	8	8	9	10	10
722				2	4	5	6	7	8	8	9	10
787					3	4	5	6	7	8	8	9
853						3	4	5	6	7	8	8
919						2	3	4	5	6	7	8
984							2	3	4	5	6	7
1050								2	4	5	5	6
1115									3	4	5	5
1181									2	3	4	5
1247										2	3	4

*Refer to Drive Specifications table on page 16 for PV source power and voltage recommended operating ranges

Pump Performance

10SDSP-3.0HP

SubDrive Solar 3.0 hp Control, 10 US GPM 2.0 hp Pump End, 3.0 hp Motor



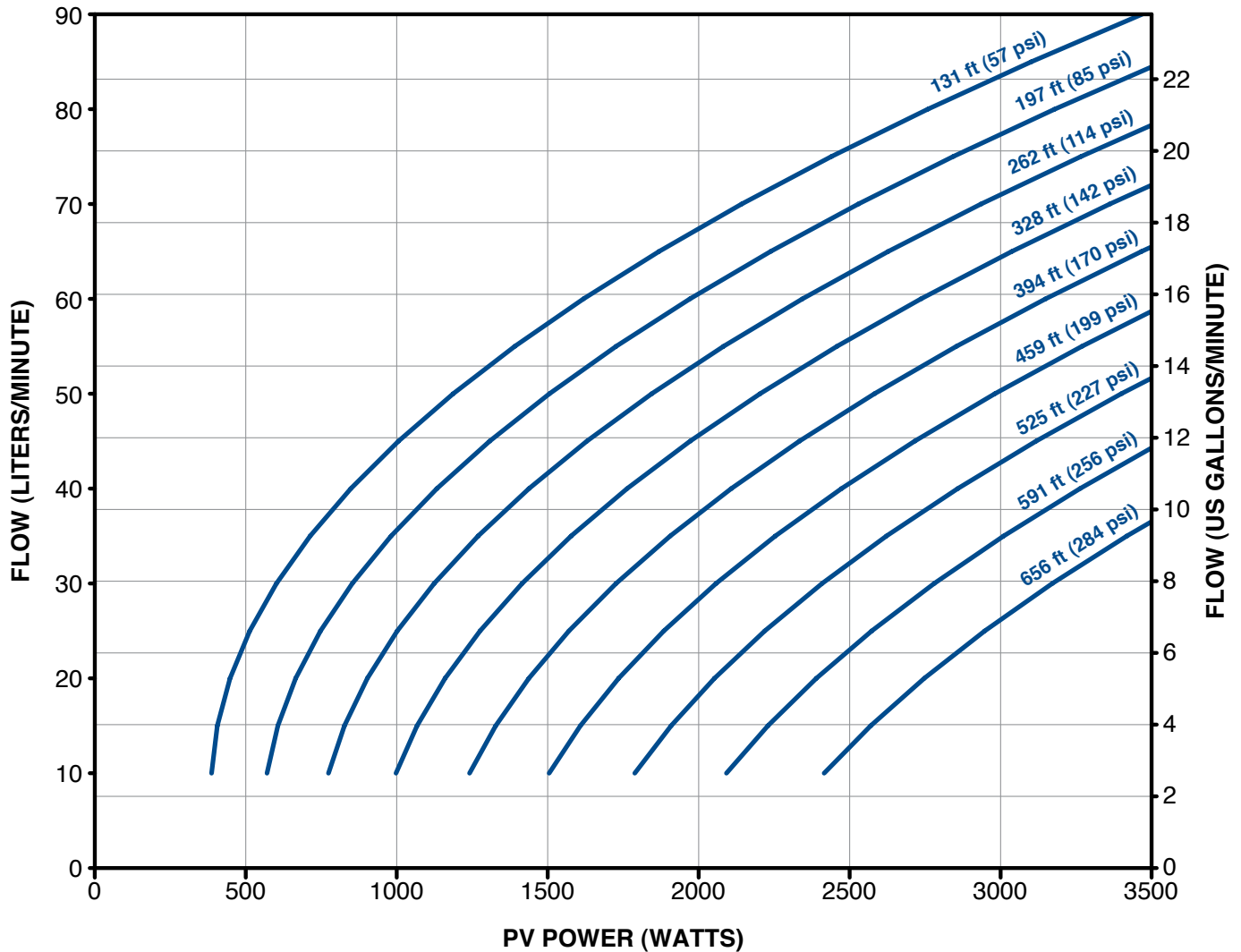
PV Power (Watts)												
	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500
TDH (ft)	Flow (US GPM)											
131	7	9	10	11	12	13	14	15	15			
197	6	8	9	10	11	12	13	14	15	15	16	
262	4	6	8	9	10	11	12	13	13	14	15	15
328		4	6	7	9	10	11	11	12	13	14	14
394			4	6	7	8	9	10	11	12	12	13
459				4	6	7	8	9	10	11	11	12
525					4	5	6	7	8	9	10	11
591						3	7	6	7	8	9	10
656							3	4	6	6	7	8

*Refer to Drive Specifications table on page 16 for PV source power and voltage recommended operating ranges

Pump Performance

15SDSP-3.0HP

SubDrive Solar 3.0 hp Control, 15 US GPM 2.0 hp Pump End, 3.0 hp Motor



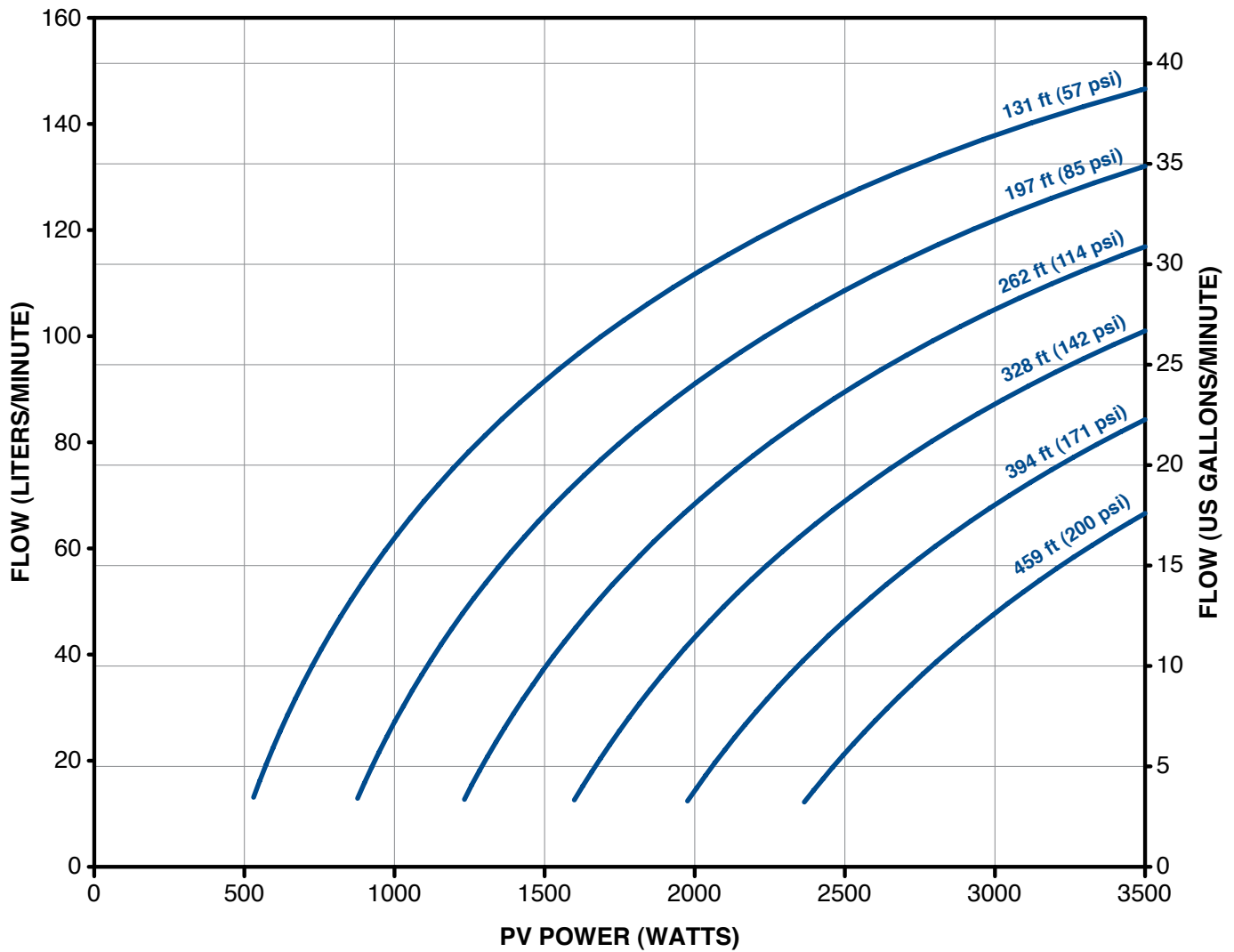
PV Power (Watts)												
	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500
TDH (ft)	Flow (US GPM)											
131	10	12	14	15	17	18	19	20	21	22	23	
197	7	10	12	13	15	16	17	18	20	21	22	22
262		7	9	11	13	14	15	17	18	19	20	21
328		3	6	9	11	12	14	15	16	17	18	19
394			3	6	8	10	11	13	14	15	16	17
459				3	6	7	9	11	12	13	15	14
525					6	7	7	9	10	11	12	14
591						5	4	6	8	9	11	12
656								4	5	7	8	10

*Refer to Drive Specifications table on page 16 for PV source power and voltage recommended operating ranges

Pump Performance

25SDSP-3.0HP

SubDrive Solar 3.0 hp Control, 25 US GPM 2.0 hp Pump End, 3.0 hp Motor



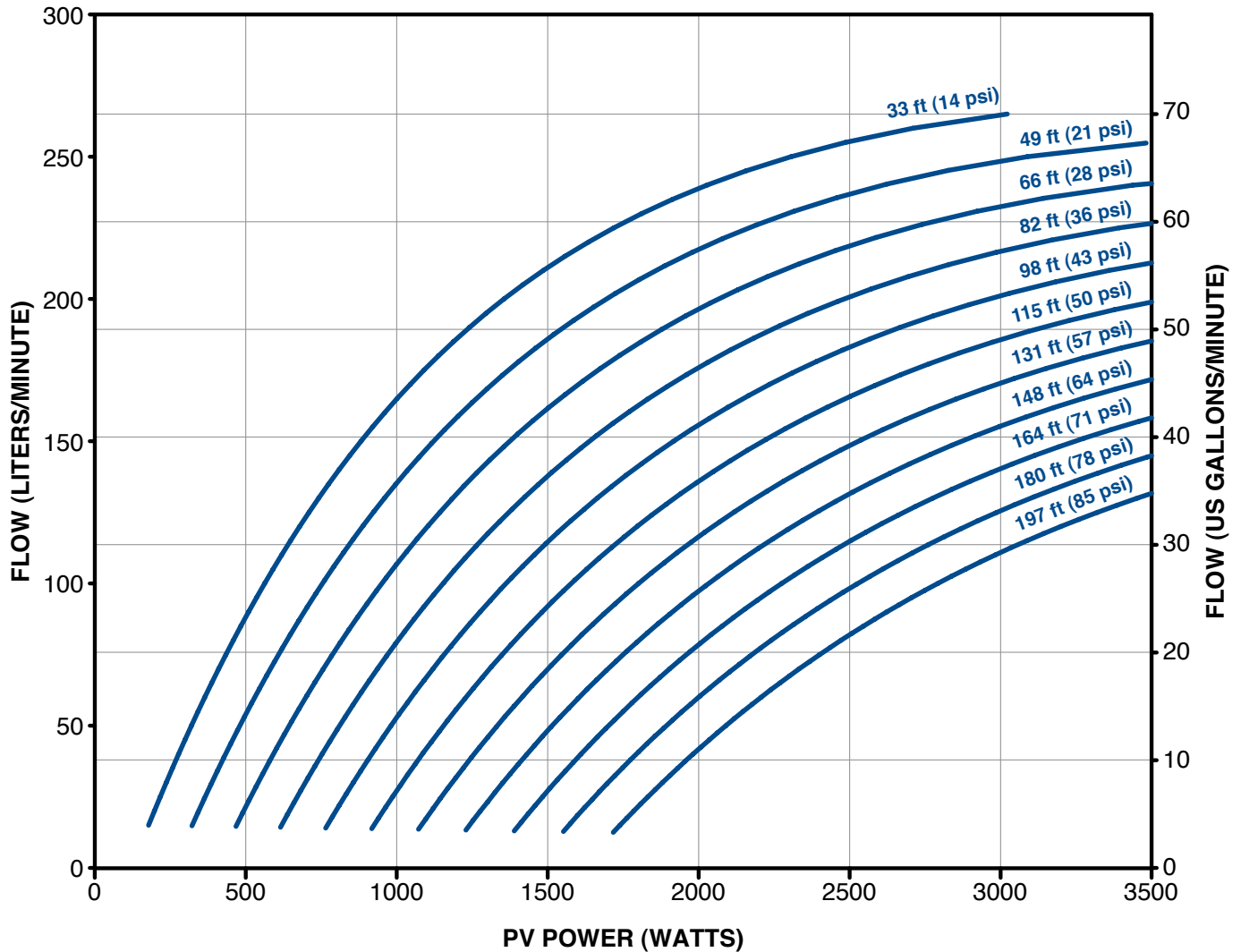
PV Power (Watts)												
	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500
TDH (ft)	Flow (US GPM)											
131	11	16	21	24	27	29	32	33	35	36	38	39
197		7	13	17	21	24	26	29	31	32	34	35
262			4	10	15	18	21	24	26	28	30	31
328					7	11	15	18	21	23	25	27
394						4	8	12	15	18	20	22
459								6	10	13	15	17

*Refer to Drive Specifications table on page 16 for PV source power and voltage recommended operating ranges

Pump Performance

45SDSP-3.0HP

SubDrive Solar 3.0 hp Control, 45 US GPM 2.0 hp Pump End, 3.0 hp Motor



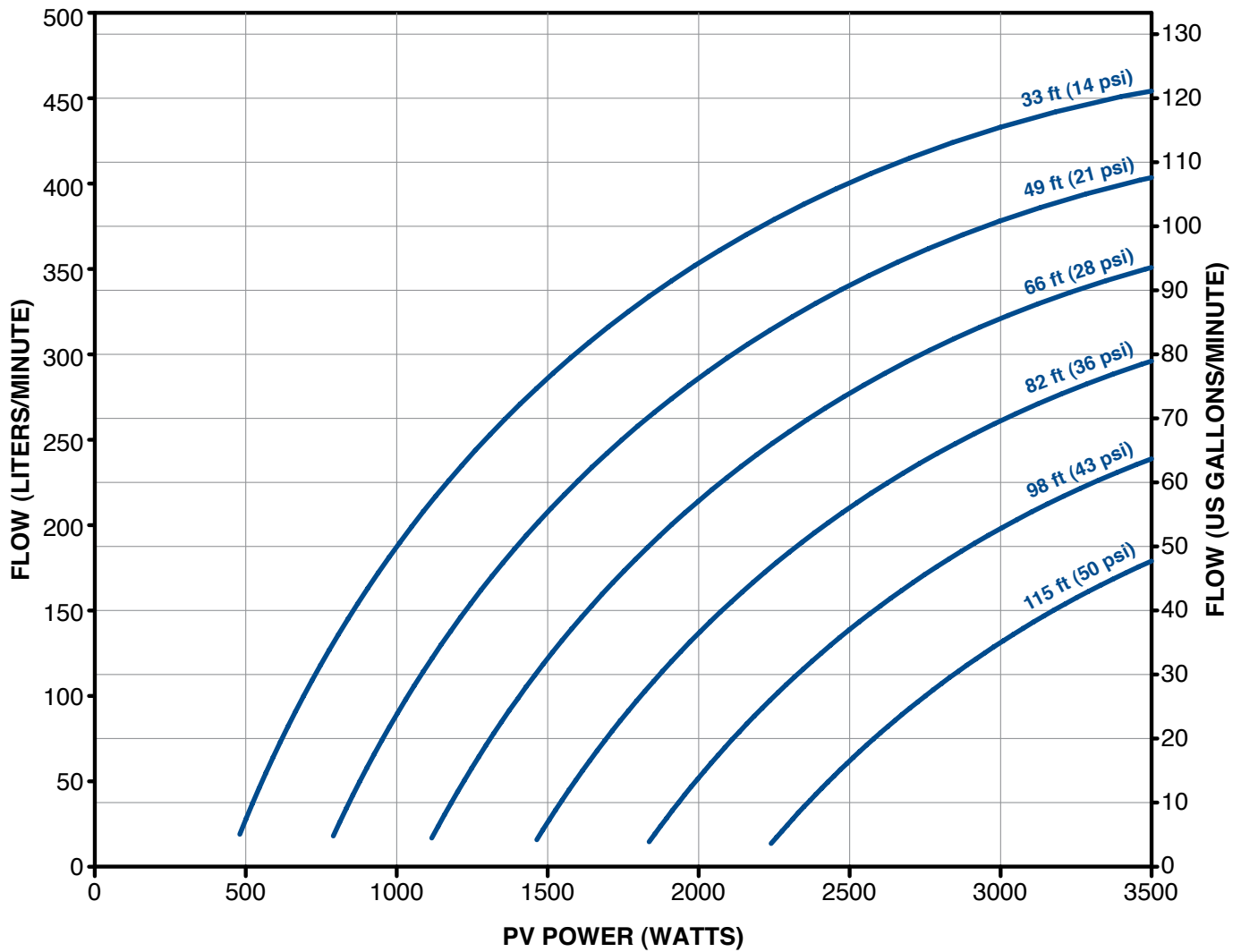
PV Power (Watts)												
	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500
TDH (ft)	Flow (US GPM)											
33	35	44	50	56	60	63	66	67	69	70		
49	26	36	43	49	54	57	60	62	64	66	66	67
66	18	28	36	43	48	52	55	58	60	61	62	63
82	11	21	29	36	42	46	50	53	55	57	59	60
98		14	23	30	36	41	45	49	51	53	55	56
115		7	17	24	30	36	40	44	46	49	51	53
131			11	18	25	31	35	39	42	45	47	49
148			4	12	20	26	30	35	38	41	43	45
164				7	15	21	26	30	34	37	40	42
180					9	16	21	26	30	33	36	39
197					4	11	17	22	26	29	32	35

*Refer to Drive Specifications table on page 16 for PV source power and voltage recommended operating ranges

Pump Performance

90SDSP-3.0HP

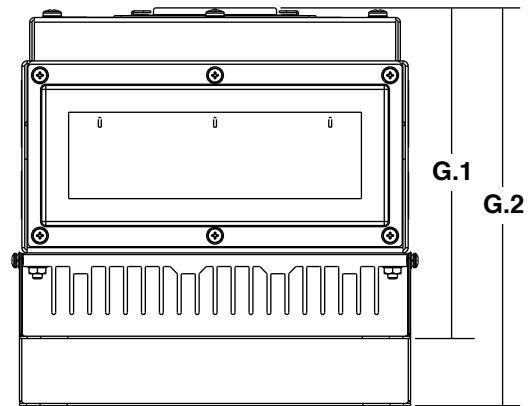
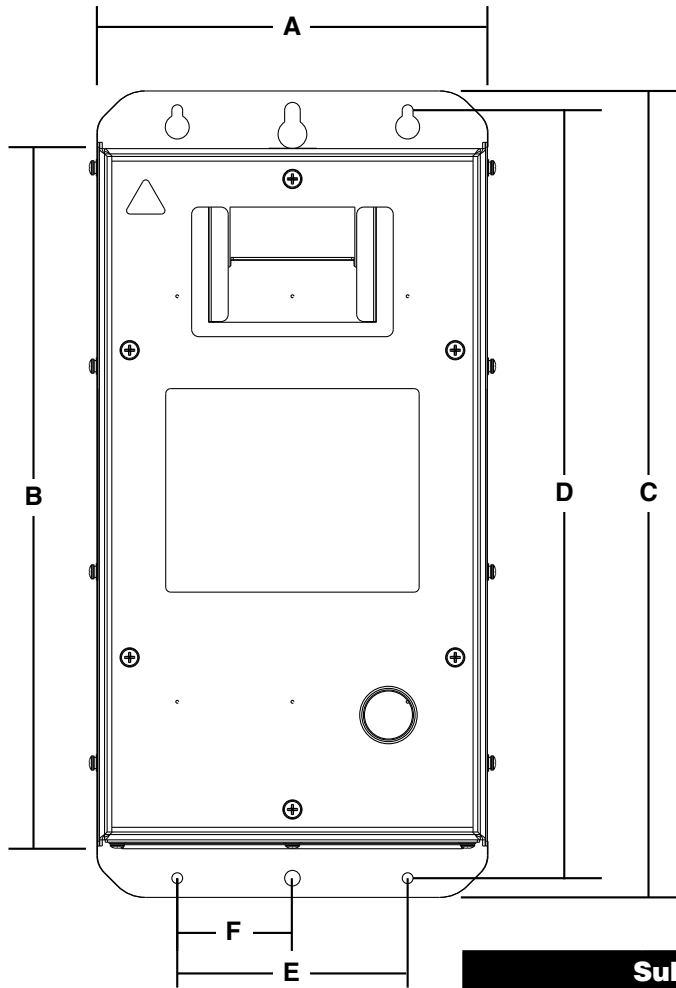
SubDrive Solar 3.0 hp Control, 90 US GPM 2.0 hp Pump End, 3.0 hp Motor



PV Power (Watts)												
	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500
TDH (ft)	Flow (US GPM)											
33	31	50	64	76	85	94	100	106	110	114	118	120
49		24	41	55	66	76	83	90	95	100	103	106
66			15	32	46	57	66	73	79	85	89	93
82				7	24	36	47	55	63	69	74	78
98						14	26	37	45	52	58	63
115							4	16	26	34	41	47

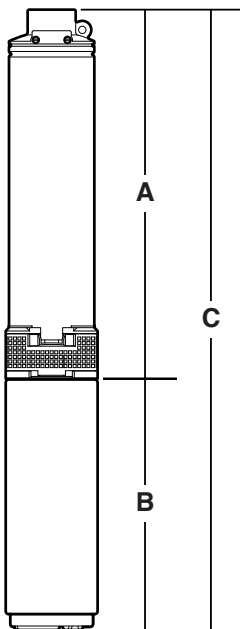
*Refer to Drive Specifications table on page 16 for PV source power and voltage recommended operating ranges

Dimensions



SubDrive Solar Controller Dimensions

	A	B	C	D	E	F	G.1	G.2
Inches	10.2	18.3	21.0	20.0	6.0	3.0	8.7	10.4
Centimeters	25.9	46.4	53.4	50.8	15.2	7.6	22.1	26.5



Solar PMA Dimensions

US GPM	lpm	hp	kW	Stages	A		B		C		Discharge	PE Weight		PMA Weight	
					inches	mm	inches	mm	inches	mm		lbs	kg	lbs	kg
5	18	1.5	1.1	30	34.1	866	11.7	298	45.8	1164	1 1/4"	19	9	48	22
10	30	1.5	1.1	18	25.3	642	11.7	298	37.0	940	1 1/4"	16	7	45	20
15	45	1.5	1.1	15	20.5	521	11.7	298	32.2	819	1 1/4"	15	7	44	20
25	70	1.5	1.1	10	19.2	488	11.7	298	30.9	786	1 1/4"	10	5	39	18
45	150	1.5	1.1	7	23.3	593	11.7	298	35.1	891	2"	16	7	45	20
90	270	1.5	1.1	5	22.6	575	11.7	298	34.4	873	2"	15	7	44	20
7	25	3	2.2	30	34.1	866	16.1	408	50.2	1274	1 1/4"	20	9	61	28
10	30	3	2.2	18	25.3	645	16.1	408	41.4	1053	1 1/4"	16	7	57	26
15	45	3	2.2	15	20.5	521	16.1	408	36.6	929	1 1/4"	15	7	56	25
25	70	3	2.2	10	19.2	488	16.1	408	35.3	896	1 1/4"	10	5	51	23
45	150	3	2.2	7	23.3	593	16.1	408	39.4	1001	2"	16	7	57	26
90	270	3	2.2	5	22.6	575	16.1	408	38.7	983	2"	15	7	56	25

Note: Maximum diameter across cable guard is 3.90" (99.1 mm) on all models.

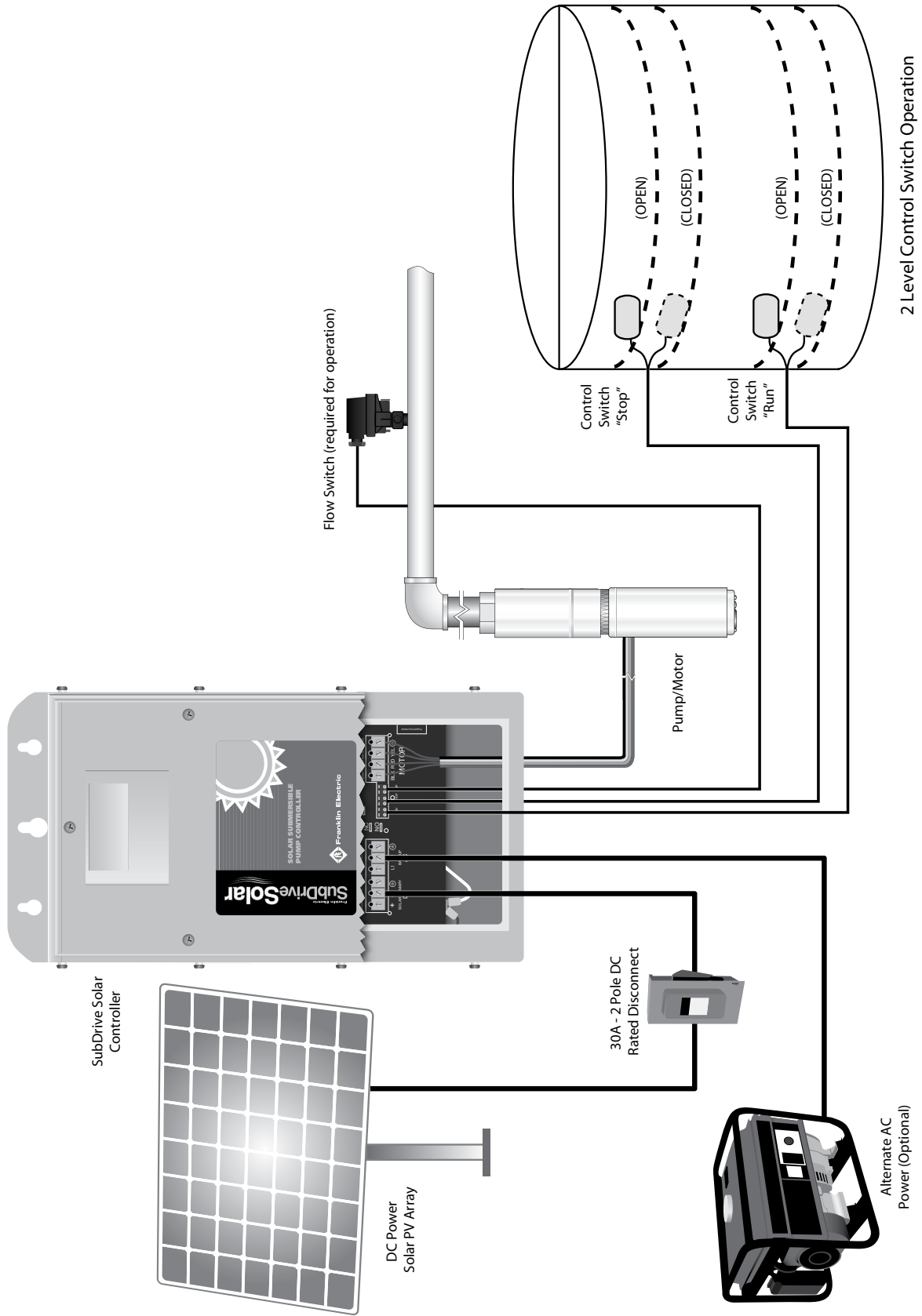
Drive Specifications

SubDrive Solar Controller Specifications			
		1.5 hp (1.1 kW) model	3.0 hp (2.2 kW) model
Controller Model No.		5870301113	5870301223
General			
Output voltage, max		200 V AC, 3-phase	200 V AC, 3-phase
Max Amps (RMS)		6.8 A, each phase	12.5 A, each phase
Output Frequency		30-58 Hz	30-68 Hz
Efficiency at Max Power		96%	96%
PV Source			
Input Voltage, at mpp		190* – 330 V DC	190* – 330 V DC
Max Amps Input		7 A DC, continuous	12 A DC, continuous
Power at mpp		up to 2000 watts	2000 – 3500 watts
Alternate AC Generator			
Input voltage		230 V AC, single-phase	230 V AC, single-phase
Max Amps (RMS)		16 A	25 A
Power and VA capability		Follow Instruction Manual for proper Generator Sizing Data	Follow Instruction Manual for proper Generator Sizing Data
For Use With			
Franklin Electric Motor		2345049203S**	2343062604**
SubDrive Solar Pumps (NPT)	US GPM	Stages	
	5	30	90020507
	7	30	N/A
	10	18	90021010
	15	15	90021510
	25	10	90022510
	45	7	90024510
90	5	90029010	
SubDrive Solar Pumps (BSPP)	lpm	Stages	
	18	30	90020508
	25	30	N/A
	30	18	90021011
	45	15	90021511
	70	10	90022511
	150	7	90024511
270	5	90029011	
Controller Size		L X W X D	L X W X D
Inches		21.00" X 10.19" X 8.61"	21.00" X 10.19" X 10.36"
Centimeters		53.34 cm X 25.87 cm X 21.87 cm	53.34 cm X 25.87 cm X 26.31 cm
Operating Conditions			
Temperature Range		-13 °F to 122 °F (104 °F max when using AC generator)	-13 °F to 122 °F (104 °F max when using AC generator)
Relative Humidity Range		0 to 100% Condensing	0 to 100% Condensing

* Drive will attempt to start the pump/motor at 190 V DC, and attempt to continue operation down to 150 V DC. The recommended Vmpp minimum for the system's solar PV array is 225 Vmpp. Maximum open circuit voltage input to the controller = 410 Voc.

** Motors shown above include an individual conductor lead installed in the motor. For replacement motors without a lead use part numbers: 1.5 hp / 1.1 kW (2345041903S) and 3.0 hp / 2.2 kW (2343062504)

System Quick Install Guide



Notes

Notes

SubDrive SolarPAK Selector:

Franklin's user-friendly SubDrive SolarPAK Selector helps you determine the optimal system for your solar project. Simply input your location, duty requirements, and solar panel characteristics (if known) and the system will automatically recommend the SolarPAK model and array configuration best for your application.

Franklin Electric | **SUBDRIVE SOLARPAK SELECTOR**

Location
 Degrees Latitude*
 Degrees Longitude*
 Look up Your Latitude and Longitude

Output Requirements
 Water Volume/Day* m³
 Total Dynamic Head* Meters

Solar Panel Characteristics
 Wmp Watts
 Vmp Volts
 Voc Volts
 Solar Array Tracker

Selected Solar Hours
4.16
 Click on a month or W/D to change

Alternative Solar Hour Settings
 AVG: 4.16
 MAX: 5.33
 MIN: 2.51
 Monthly values: Jan (3.08), Feb (3.62), Mar (4.10), Apr (4.59), May (4.77), Jun (5.19), Jul (5.33), Aug (4.95), Sep (4.93), Oct (4.05), Nov (2.74), Dec (2.51)

Recommended SolarPAK
70SDSP-1.1KW
 Part #: 90032629
 Flow: 76 LPM
 Power: 1221 Watts
 Vmp: 233 Volts

Alternative SolarPAKs * SSP NPT

Model #	Part #	LPM	Min. Array Requirements Watts	Vmp
70SDSP-1.1KW	90032629	76	1221	234
150SDSP-1.1KW	90034520	70	965	274

Monthly Application Performance (m³ per day) Flow Rate: 82 Lpm
 Monthly values: Jan (15), Feb (18), Mar (20), Apr (22), May (23), Jun (25), Jul (26), Aug (24), Sep (24), Oct (20), Nov (13), Dec (12)

Panel Array Configuration
 Application Panel Array (Single Panel Description: 200 Wmp, 30 Vmp, 37 Voc)

Panels Per String	Number of Parallel Strings	Total Number of Panels	Array Power (Wmp)	Array Voltage (Vmp)	Array Voltage (Voc)
8	1	8	1600	240	296

 * Maximum array open circuit voltage = 410 Voc

* Above screen shot is illustrative only and is subject to continuous improvement

The Franklin Electric SubDrive Solar Selector and other information on our series of solar products can be found on Franklin Electric's Solar Website:

www.franklin-electric.com/solar

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