



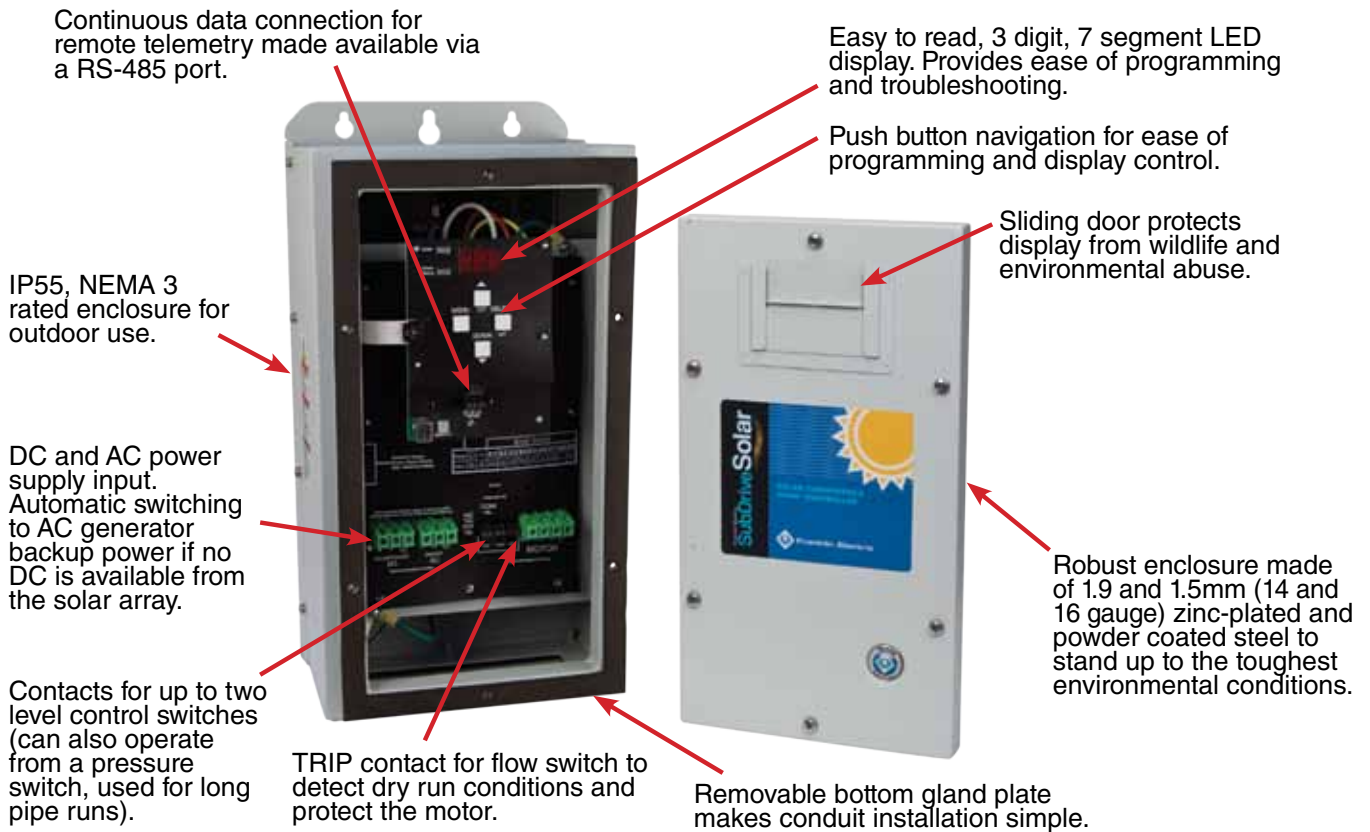
SubDrive SOLAR PAK

SOLAR PUMPING SYSTEM



SubDrive SOLARPAK

SOLAR PUMPING SYSTEM



Applications

- Livestock watering
- Tank/Cistern filling
- Wildlife refuge & game farms
- Rural water supply for villages & homesteads
- Irrigation systems
- Fountains
- Vineyards
- Renewable energy projects
- Mining water transfer
- Water from bores, rivers, dams & creeks

Built-in Diagnostics and Protection

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

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



All-in-One Package

The SubDrive SolarPAK is the System Solution to your solar pumping requirements. Using Franklin 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" Solar pump
- SubDrive Solar controller
- Flow switch with 10m cable
- Variety of flow rates available in: 18, 25, 30, 45, 70, 100, 150, and 270 lpm
- Motor and drive ratings available in: 1.1 and 2.2 kW

Features

- High flow system for faster tank fill and significant water output
- Proven motor and pump technology and reliability
- Robust IP55, NEMA 3 drive enclosure minimizes impact of wildlife, insects, dust, and weather
- DC and AC power inputs with auto-switching to generator back-up
- 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
- **OBSERVANT™** compatible for remote access and control



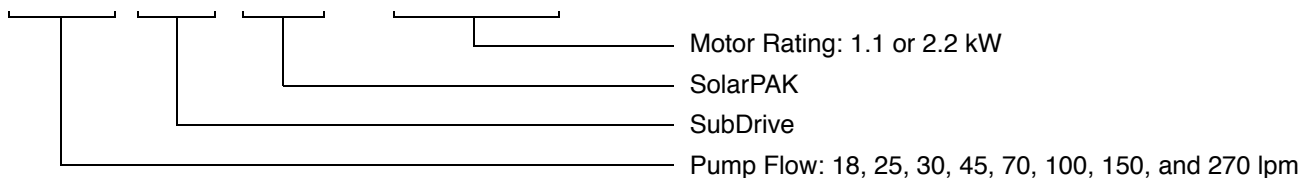
Ordering Information

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Model Number Description

XXX SD SP - X.XHP



SubDrive SolarPAK Model Numbers

SolarPAK		SubDrive Solar Controller		Solar Pump – BSPP				Motor		Flow Switch BSPP	
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 1.1 kW N3	5870301113	18	30	18SL15S4-PEXB	90020508	1.1	2345049203S	C25	226014101
25SDSP-2.2KW	90030730	SD Solar 2.2 kW N3	5870301223	25	30	25SL15S4-PEXB	90020711	2.2	2343062604	C25	226014101
30SDSP-1.1KW	90031020	SD Solar 1.1 kW N3	5870301113	30	18	30SL15S4-PEXB	90021011	1.1	2345049203S	C25	226014101
30SDSP-2.2KW	90031030	SD Solar 2.2 kW N3	5870301223	30	18	30SL15S4-PEXB	90021011	2.2	2343062604	C25	226014101
45SDSP-1.1KW	90031520	SD Solar 1.1 kW N3	5870301113	45	15	45SL15S4-PEXB	90021511	1.1	2345049203S	C25	226014101
45SDSP-2.2KW	90031530	SD Solar 2.2 kW N3	5870301223	45	15	45SL15S4-PEXB	90021511	2.2	2343062604	C25	226014101
70SDSP-1.1KW	90032520	SD Solar 1.1 kW N3	5870301113	70	10	70SL15S4-PEXB	90022511	1.1	2345049203S	F21	226019101
70SDSP-2.2KW	90032530	SD Solar 2.2 kW N3	5870301223	70	10	70SL15S4-PEXB	90022511	2.2	2343062604	F21	226019101
100SDSP-1.1KW	90033520 ^(a)	SD Solar 1.1 kW N3	5870301113	100	10	100SL15S4-PEXB	90023511	1.1	2345049203S	F21	226019101
100SDSP-2.2KW	90033530 ^(a)	SD Solar 2.2 kW N3	5870301223	100	10	100SL15S4-PEXB	90023511	2.2	2343062604	F21	226019101
150SDSP-1.1KW	90034520 ^(a)	SD Solar 1.1 kW N3	5870301113	150	7	150SL15S4-PEXB	90024511	1.1	2345049203S	F21	226019101
150SDSP-2.2KW	90034530 ^(a)	SD Solar 2.2 kW N3	5870301223	150	7	150SL15S4-PEXB	90024511	2.2	2343062604	F21	226019101
270SDSP-1.1KW	90039020 ^(a)	SD Solar 1.1 kW N3	5870301113	270	5	270SL15S4-PEXB	90029011	1.1	2345049203S	F21	226019101
270SDSP-2.2KW	90039030 ^(a)	SD Solar 2.2 kW N3	5870301223	270	5	270SL15S4-PEXB	90029011	2.2	2343062604	F21	226019101

* A 10 metre cable for use with the flow switch is included in the controller packaging

** 316SS Motors available on request

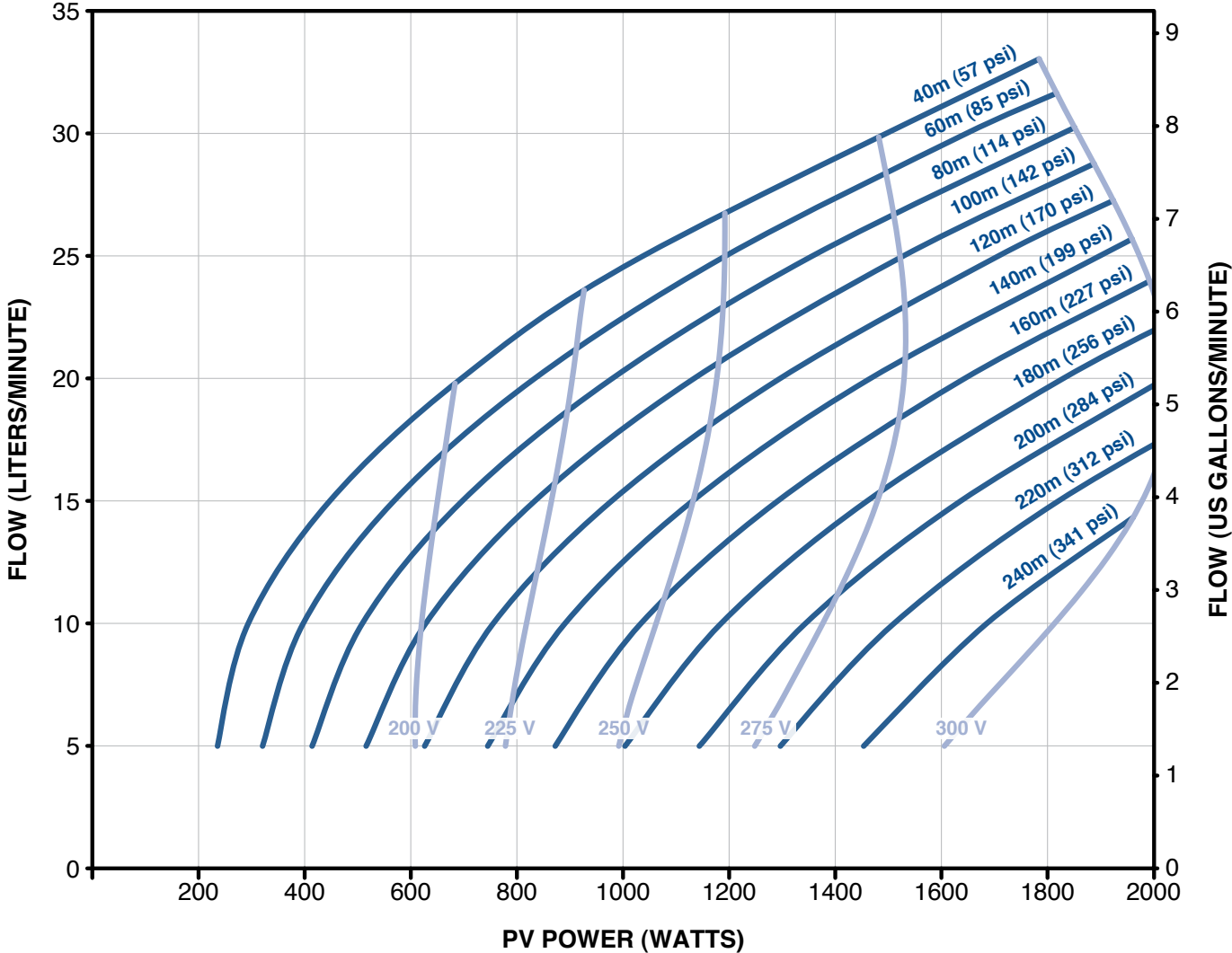
^(a) 100, 150 and 270 LPM pump ends are supplied with external 2" BSP Check valve.

^(b) For River, Dam and Creek applications, install 316SS motors with mechanical seals are recommended.

Pump Performance

18SDSP-1.1KW

SubDrive Solar 1.1 kW, 18 lpm Pump End, 1.1 kW Motor



PV Power (Watts)										
	200	400	600	800	1000	1200	1400	1600	1800	2000
Head (m)										
40		14	18	22	25	27	29	31	33	
60		10	16	19	22	25	27	30	31	
80			13	17	20	23	26	28	30	
100			9	14	18	21	24	26	28	
120				11	15	19	21	24	26	
140				7	13	16	19	22	24	
160					9	14	17	19	22	24
180					5	10	14	17	20	22
200						6	11	15	17	20
220							8	12	15	17
240								8	12	

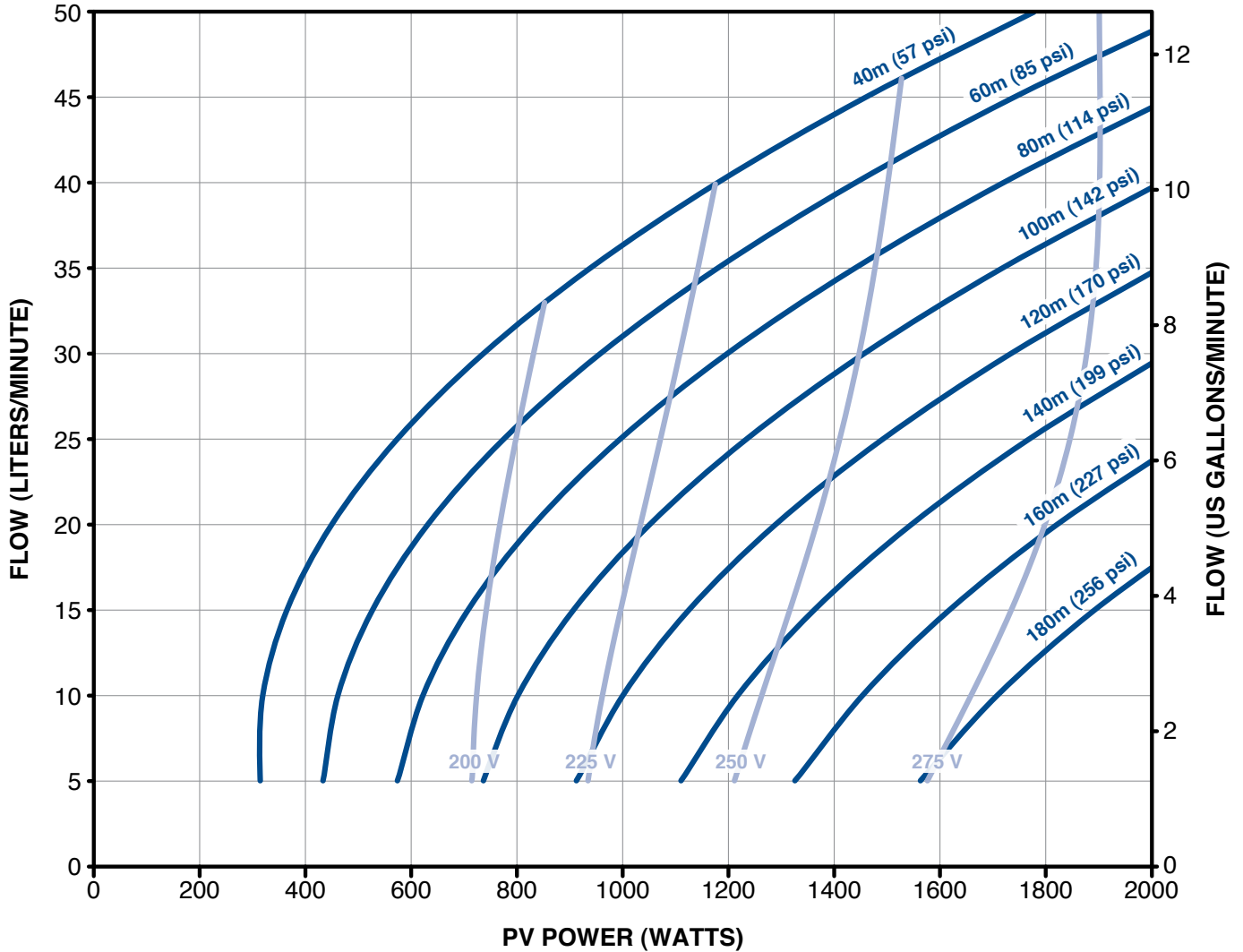
* 1 bar = 10.2 meters of head

**Refer to Drive Specifications table on page 18 for PV source power and voltage recommended operating ranges

Pump Performance

30SDSP-1.1kW

SubDrive Solar 1.1 kW, 30 lpm Pump End, 1.1 kW Motor



		PV Power (Watts)									
		200	400	600	800	1000	1200	1400	1600	1800	2000
Head (m)											
40			18	26	32	36	40	44	47	50	
60				19	26	31	35	39	43	46	49
80				8	19	25	30	34	38	41	44
100					10	18	24	29	33	36	40
120						10	18	23	27	31	35
140							9	16	21	26	29
160								8	15	20	24
180									7	13	18

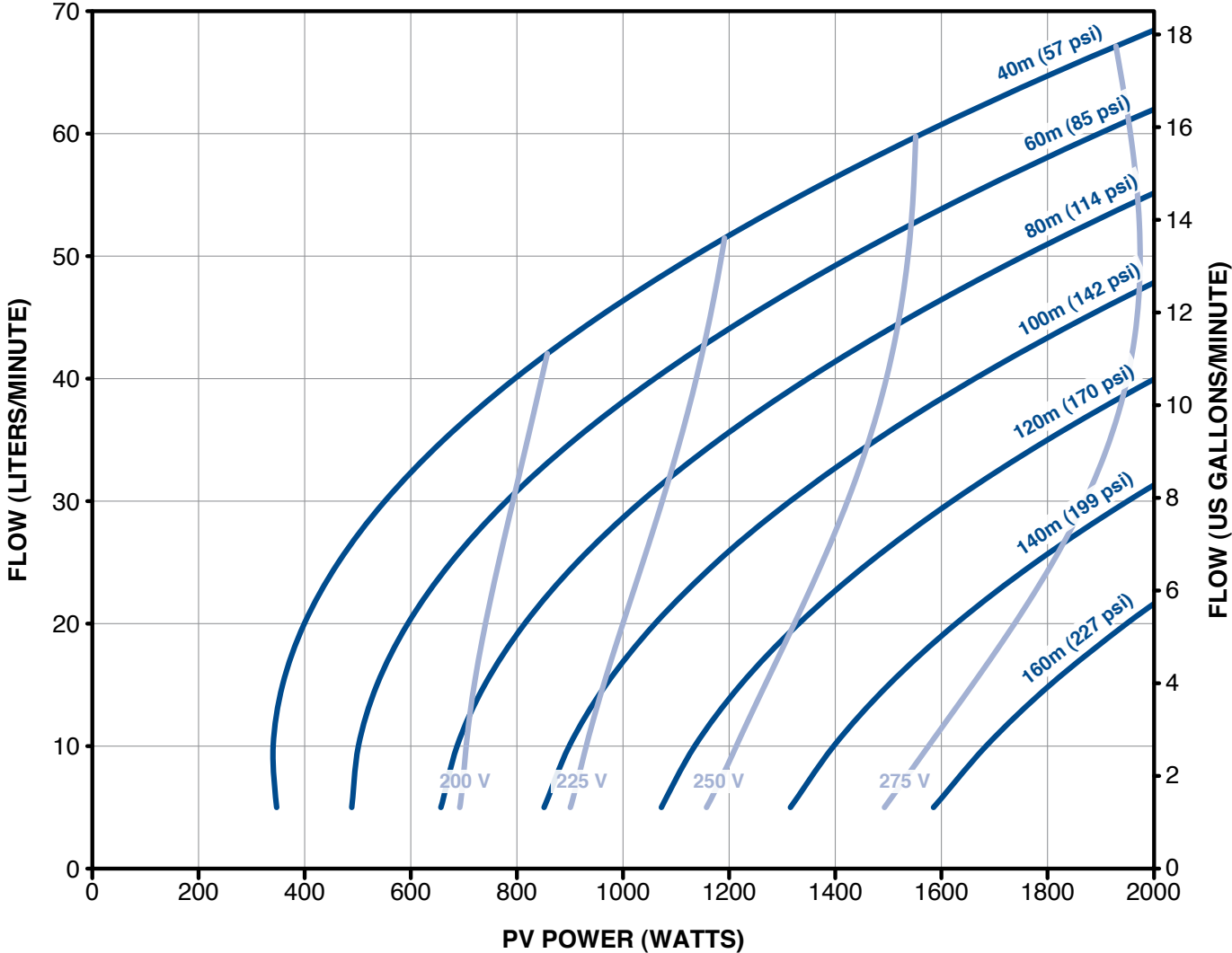
* 1 bar = 10.2 meters of head

**Refer to Drive Specifications table on page 18 for PV source power and voltage recommended operating ranges

Pump Performance

45SDSP-1.1kW

SubDrive Solar 1.1 kW, 45 lpm Pump End, 1.1 kW Motor



		PV Power (Watts)									
		200	400	600	800	1000	1200	1400	1600	1800	2000
Head (m)											
40			20	32	40	46	52	56	61	65	68
60				21	31	48	44	49	54	58	62
80					19	29	36	41	46	51	55
100						17	26	33	38	43	48
120							14	23	30	35	40
140								10	19	35	31
160									6	15	22

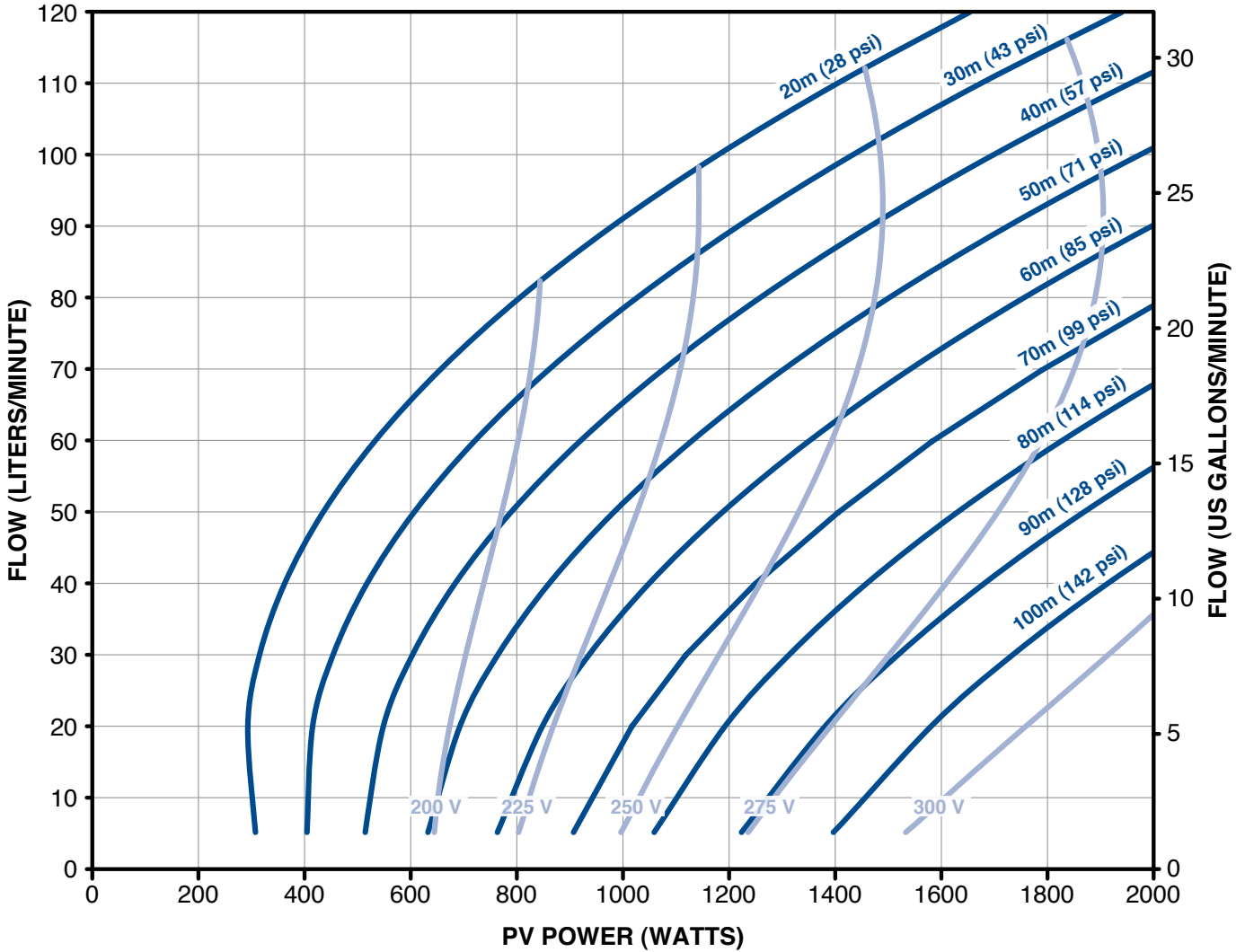
* 1 bar = 10.2 meters of head

**Refer to Drive Specifications table on page 18 for PV source power and voltage recommended operating ranges

Pump Performance

70SDSP-1.1kW

SubDrive Solar 1.1 kW, 70 lpm Pump End, 1.1 kW Motor



	PV Power (Watts)									
	200	400	600	800	1000	1200	1400	1600	1800	2000
Head (m)										
20		46	66	80	92	102	110	118		
30			49	66	78	89	98	107	115	
40			30	51	65	77	87	96	104	112
50				34	52	64	75	85	93	101
60				13	36	51	63	73	82	91
70					18	36	50	61	71	80
80						21	36	48	58	68
90							22	35	46	56
100							5	22	34	45

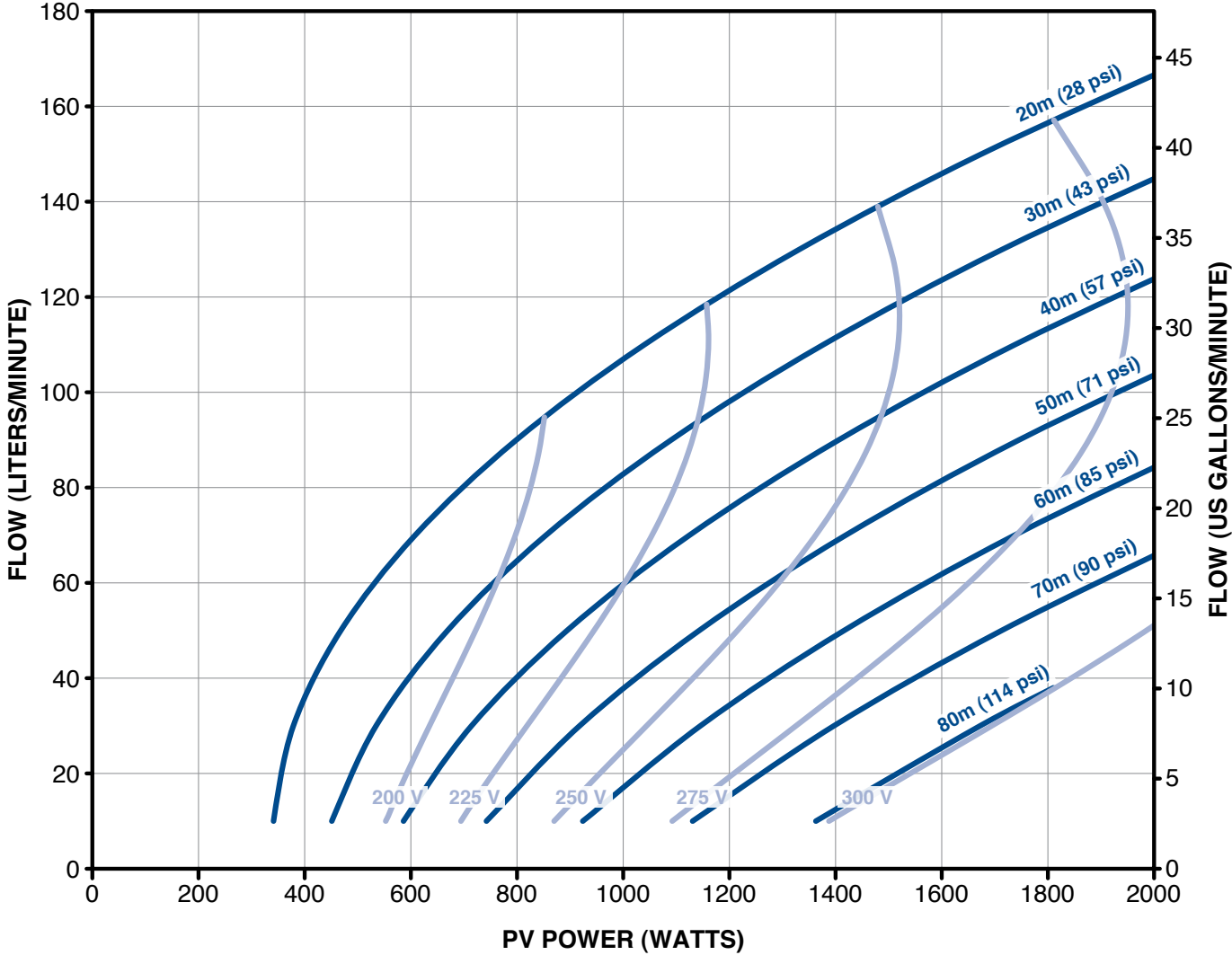
* 1 bar = 10.2 meters of head

**Refer to Drive Specifications table on page 18 for PV source power and voltage recommended operating ranges

Pump Performance

100SDSP-1.1kW

SubDrive Solar 1.1 kW, 100 lpm Pump End, 1.1 kW Motor



	PV Power (Watts)									
	200	400	600	800	1000	1200	1400	1600	1800	2000
Head (m)										
20		36	69	90	107	122	135	146	157	166
30			41	65	83	98	112	124	135	145
40			13	40	60	76	90	102	114	124
50				17	38	55	68	81	93	104
60					17	35	49	62	74	85
70						15	30	43	55	66
80							13	25	37	

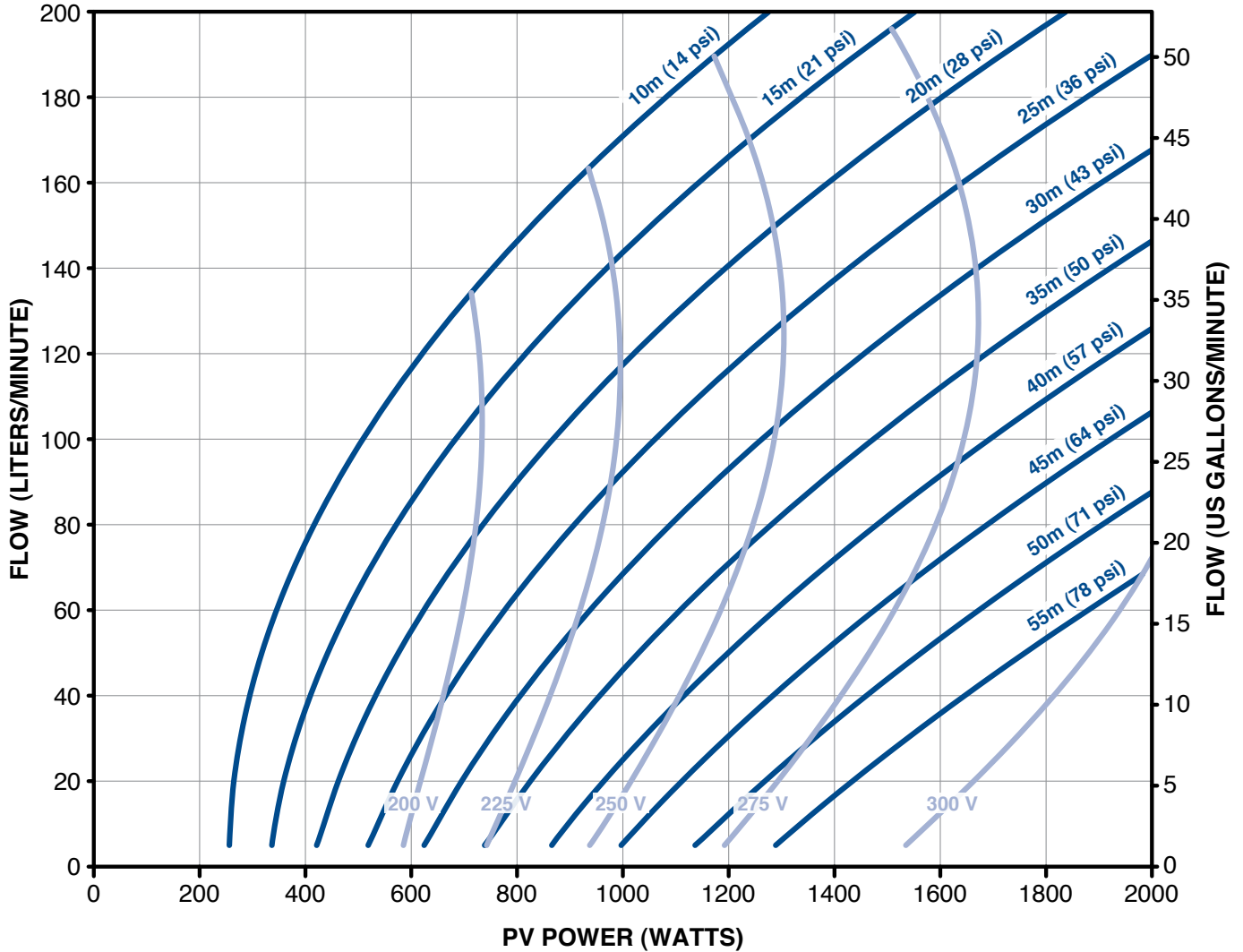
* 1 bar = 10.2 meters of head

**Refer to Drive Specifications table on page 18 for PV source power and voltage recommended operating ranges

Pump Performance

150SDSP-1.1kW

SubDrive Solar 1.1 kW, 150 lpm Pump End, 1.1 kW Motor



		PV Power (Watts)									
		200	400	600	800	1000	1200	1400	1600	1800	2000
Head (m)											
10			77	117	146	172	193				
15			38	86	118	144	165	186			
20				55	90	118	141	162	180	197	
25				27	64	93	116	138	157	175	190
30					40	69	93	115	134	152	168
35					16	47	71	93	113	130	147
40						25	50	72	91	110	126
45							30	53	72	90	107
50								12	35	54	71
55									18	36	54

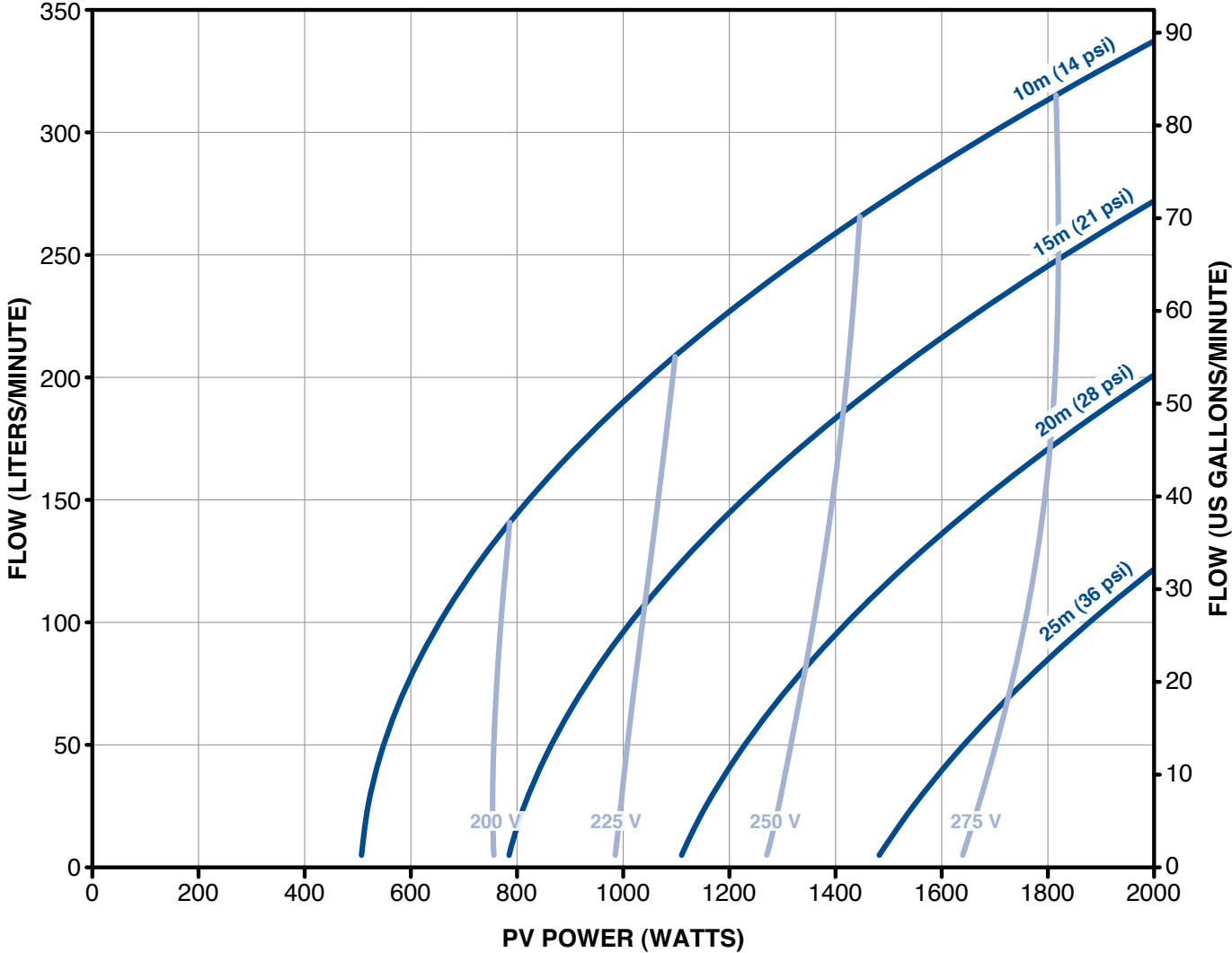
* 1 bar = 10.2 meters of head

**Refer to Drive Specifications table on page 18 for PV source power and voltage recommended operating ranges

Pump Performance

270SDSP-1.1kW

SubDrive Solar 1.1 kW, 270 lpm Pump End, 1.1 kW Motor



		PV Power (Watts)									
		200	400	600	800	1000	1200	1400	1600	1800	2000
Head (m)											
10				78	145	190	227	260	289	314	344
15				18	97	145	184	217	246	272	
20						45	95	137	171	202	
25								40	85	122	

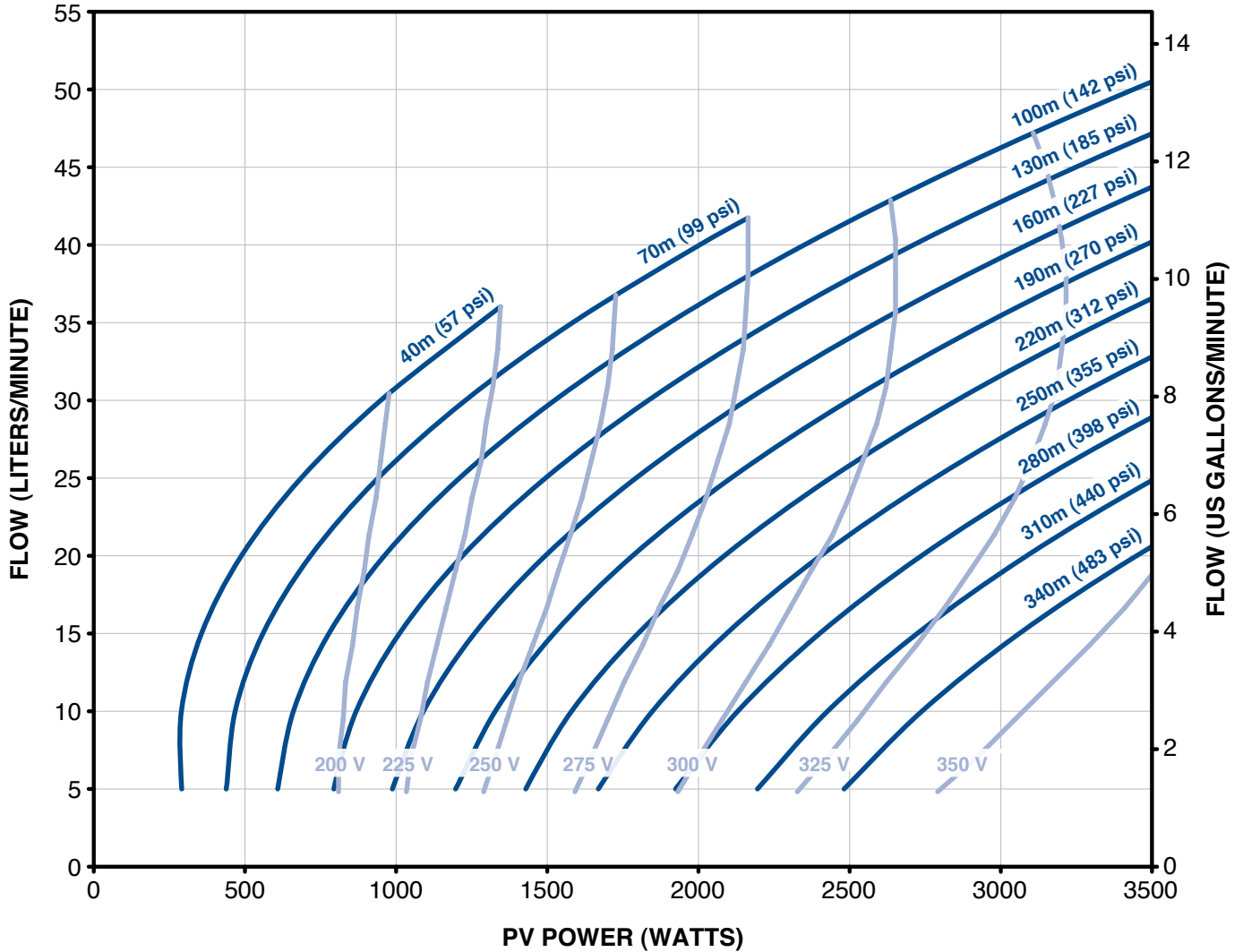
* 1 bar = 10.2 meters of head

**Refer to Drive Specifications table on page 18 for PV source power and voltage recommended operating ranges

Pump Performance

25SDSP-2.2kW

SubDrive Solar 2.2 kW, 25 lpm Pump End, 2.2 kW Motor



PV Power (Watts)												
	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500
Head (m)												
40	26	31	34									
70	21	26	30	34	37	40	43					
100	14	21	26	30	33	36	39	42	44	46	48	50
130		15	21	25	29	32	35	38	40	43	45	47
160		6	15	20	24	28	31	34	37	39	41	44
190			7	14	19	23	27	30	33	35	38	40
220				8	14	19	22	26	29	32	34	37
250					7	13	18	21	25	28	30	33
280						7	12	17	20	23	26	29
310							6	11	15	19	22	25
340								5	10	14	18	21

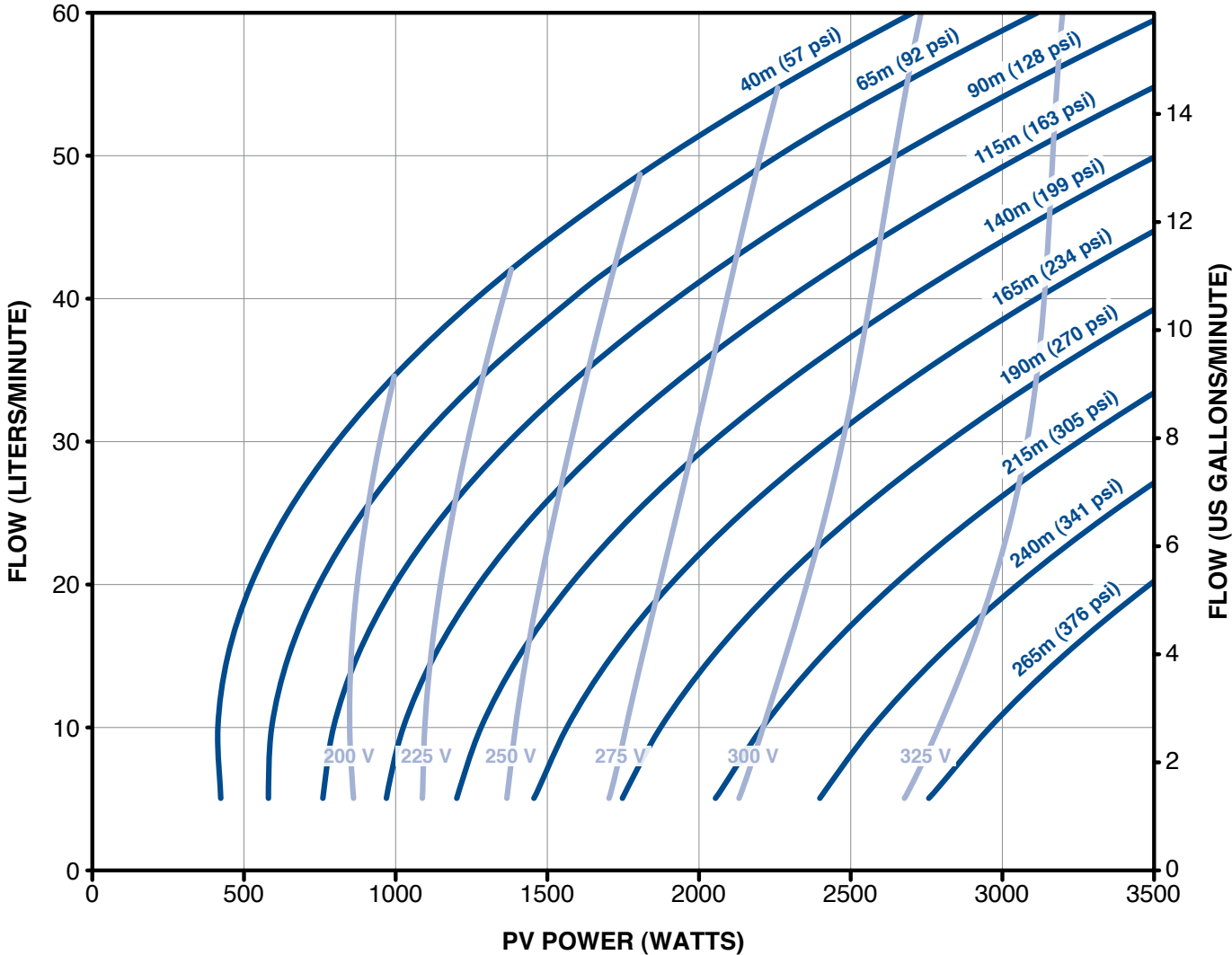
* 1 bar = 10.2 meters of head

**Refer to Drive Specifications table on page 18 for PV source power and voltage recommended operating ranges

Pump Performance

30SDSP-2.2kW

SubDrive Solar 2.2 kW, 30 lpm Pump End, 2.2 kW Motor



PV Power (Watts)												
	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500
Head (m)												
40	28	35	40	44	48	51	55	58	60			
65	20	28	34	39	43	46	50	53	56	59		
90	5	20	27	33	37	41	45	48	51	54	57	59
115		8	19	26	31	35	39	43	46	49	52	55
140			8	18	24	29	33	37	41	44	47	50
165				7	16	22	27	31	35	38	42	45
190					5	14	20	25	29	33	36	39
215							11	17	22	26	30	34
240								8	14	19	23	27
265									5	11	16	20

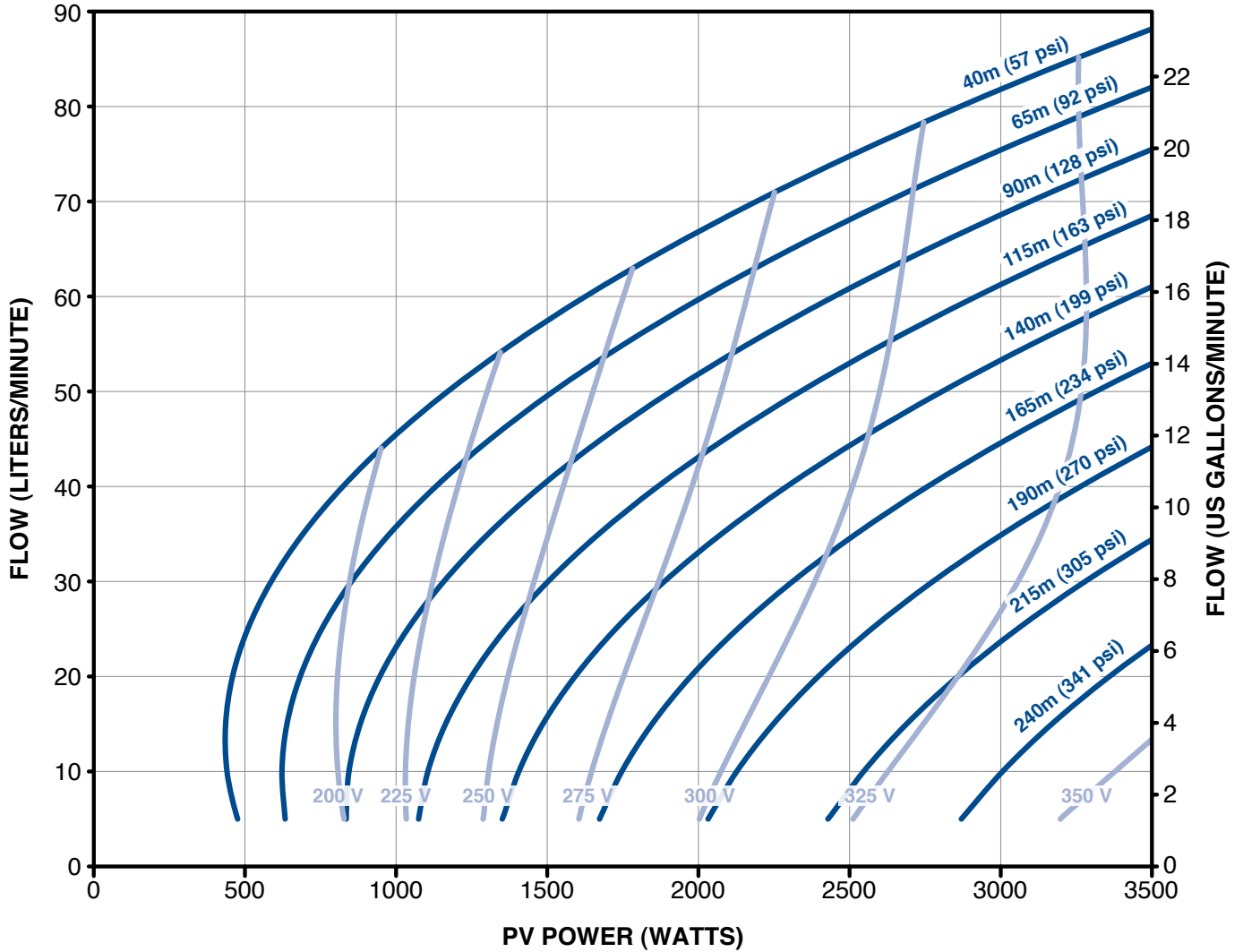
* 1 bar = 10.2 meters of head

**Refer to Drive Specifications table on page 18 for PV source power and voltage recommended operating ranges

Pump Performance

45SDSP-2.2kW

SubDrive Solar 2.2 kW, 45 lpm Pump End, 2.2 kW Motor



PV Power (Watts)												
	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500
Head (m)												
40	38	46	52	58	63	67	71	75	78	82	85	88
65	25	36	44	50	55	60	64	68	72	76	79	82
90		23	33	41	46	52	56	61	65	69	72	76
115			20	30	37	43	48	53	57	61	65	68
140				16	26	33	39	44	49	54	57	61
165					10	21	28	34	40	45	49	53
190							15	23	30	35	40	44
215								8	17	24	30	34
240										10	17	24

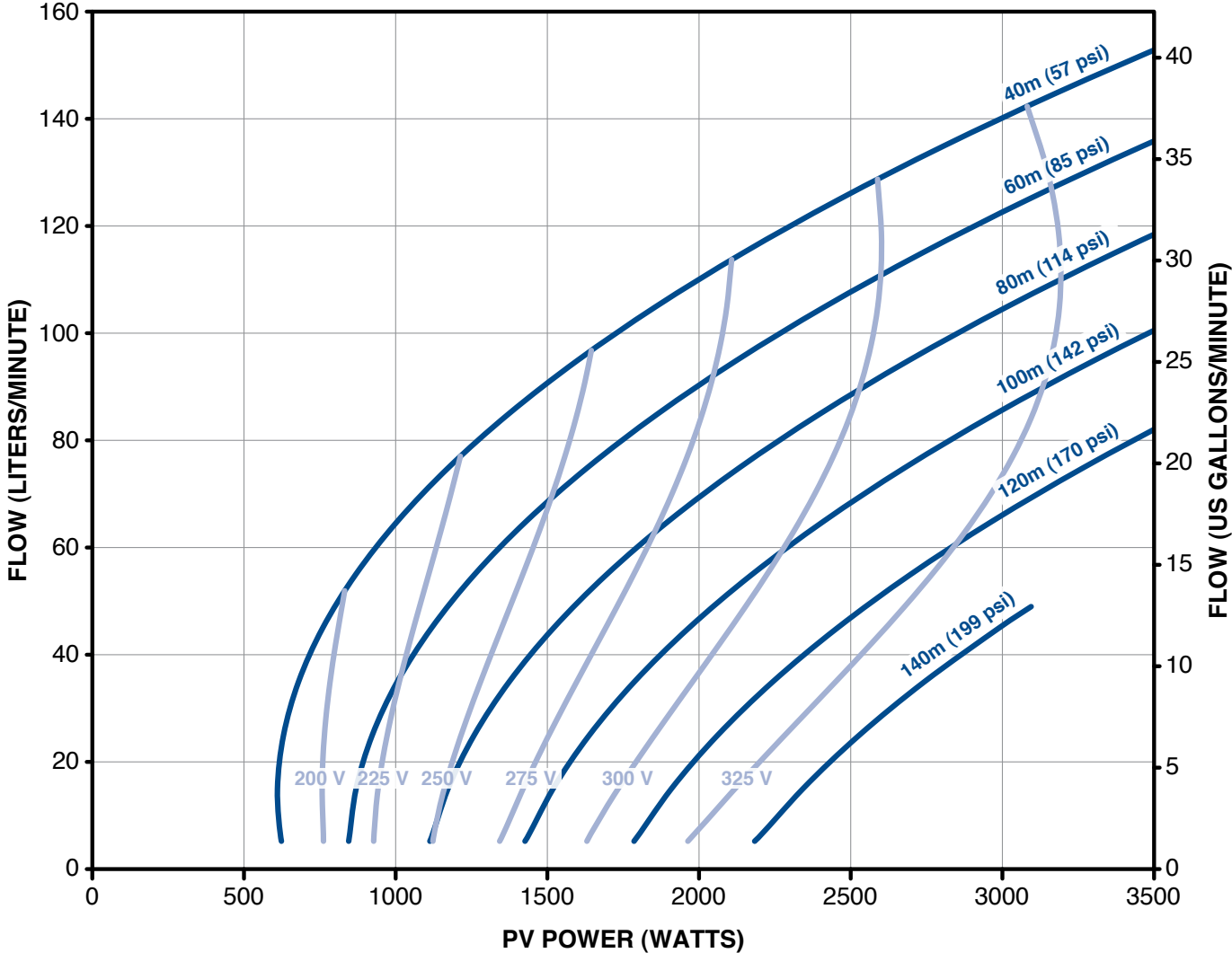
* 1 bar = 10.2 meters of head

**Refer to Drive Specifications table on page 18 for PV source power and voltage recommended operating ranges

Pump Performance

70SDSP-2.2kW

SubDrive Solar 2.2 kW, 70 lpm Pump End, 2.2 kW Motor



PV Power (Watts)												
	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500
Head (m)												
40	45	65	79	91	102	110	118	126	133	140	147	153
60		34	54	68	80	91	99	108	116	122	130	136
80			24	43	58	70	79	88	97	105	112	118
100				13	33	46	58	68	77	86	94	101
120						21	35	47	57	66	74	82
140							10	24	36	45		

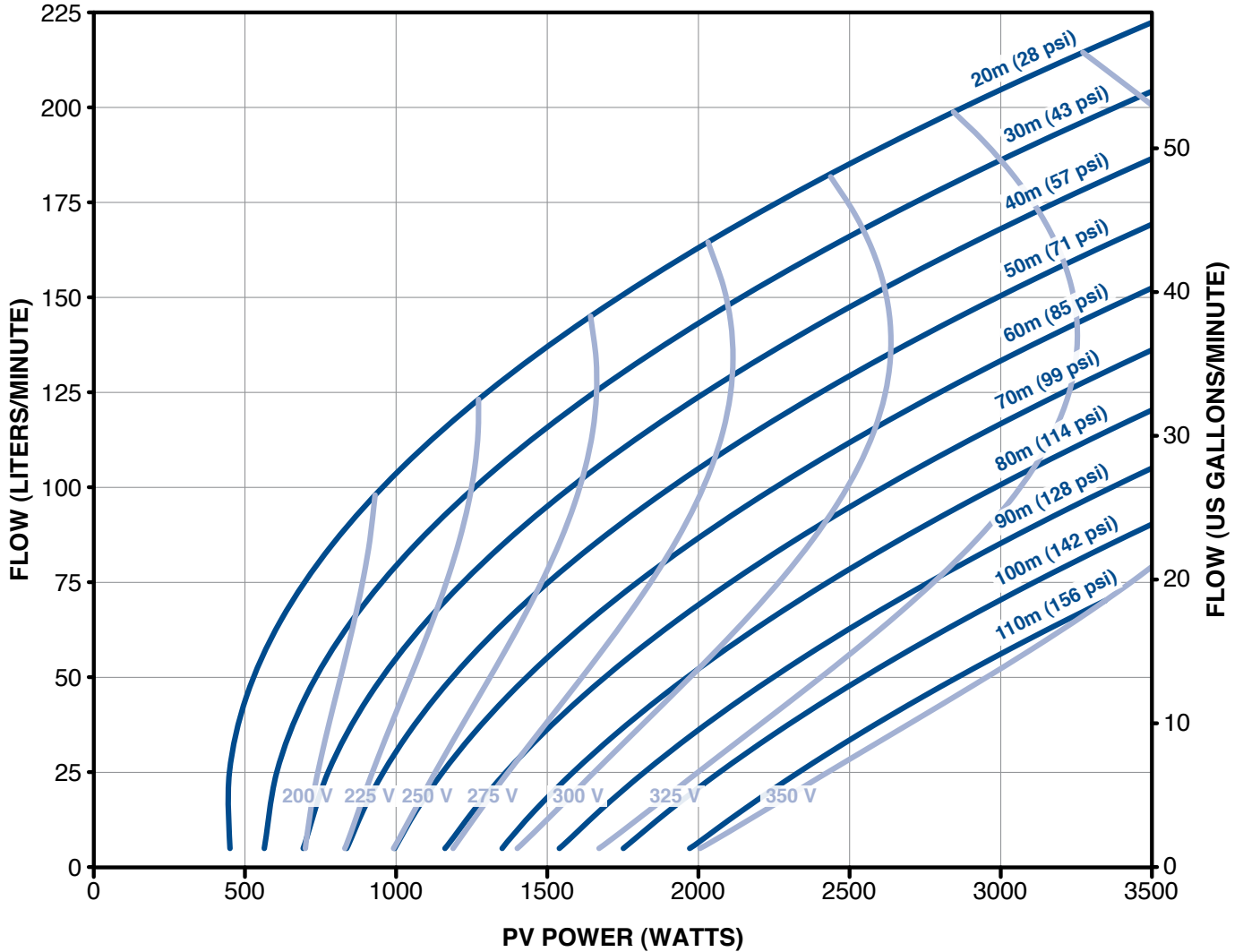
* 1 bar = 10.2 meters of head

**Refer to Drive Specifications table on page 18 for PV source power and voltage recommended operating ranges

Pump Performance

100SDSP-2.2kW

SubDrive Solar 2.2 kW, 100 lpm Pump End, 2.2 kW Motor



	PV Power (Watts)											
	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500
Head (m)												
20	82	104	122	137	151	163	175	185	195	205	214	222
30	53	80	100	116	130	143	155	166	177	186	195	205
40	20	55	77	95	110	124	136	147	158	168	178	186
50		30	56	75	91	105	118	130	140	150	160	170
60			35	55	73	86	100	112	123	134	143	152
70			15	36	54	70	83	95	106	117	126	136
80				19	36	52	66	79	90	101	111	120
90					20	36	50	63	75	85	95	105
100						21	35	48	59	70	81	90
110							21	34	45	56	66	

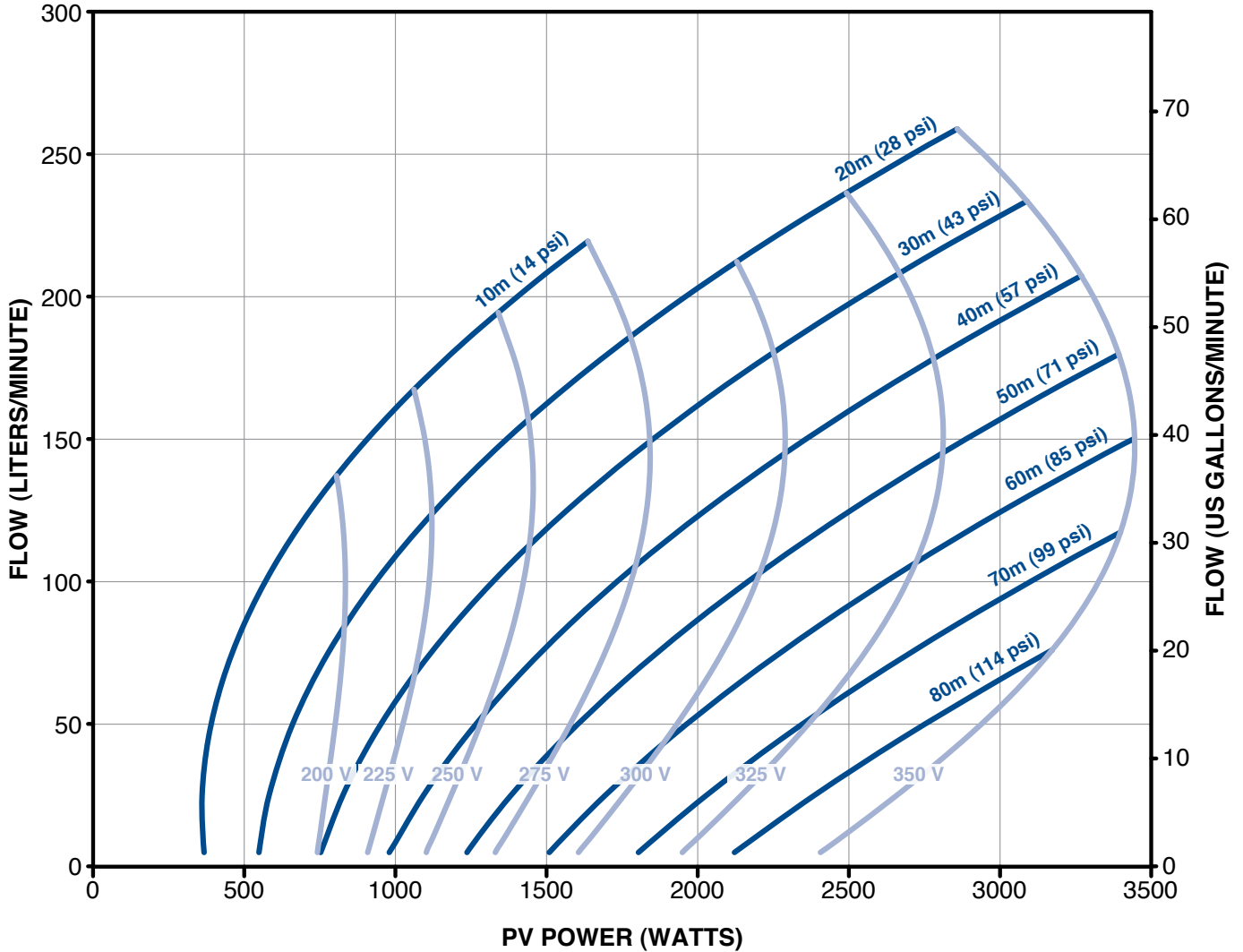
* 1 bar = 10.2 meters of head

**Refer to Drive Specifications table on page 18 for PV source power and voltage recommended operating ranges

Pump Performance

150SDSP-2.2kW

SubDrive Solar 2.2 kW, 150 lpm Pump End, 2.2 kW Motor



PV Power (Watts)												
	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500
Head (m)												
10	130	162	187	209								
20	70	109	139	162	184	204	221	237	253			
30		58	92	119	142	162	180	198	214	229		
40			48	78	102	124	143	160	176	192	207	
50				39	65	86	107	125	141	157	172	
60					31	53	73	92	109	124	140	
70						23	43	61	79	94	109	
80							15	34	50	65		

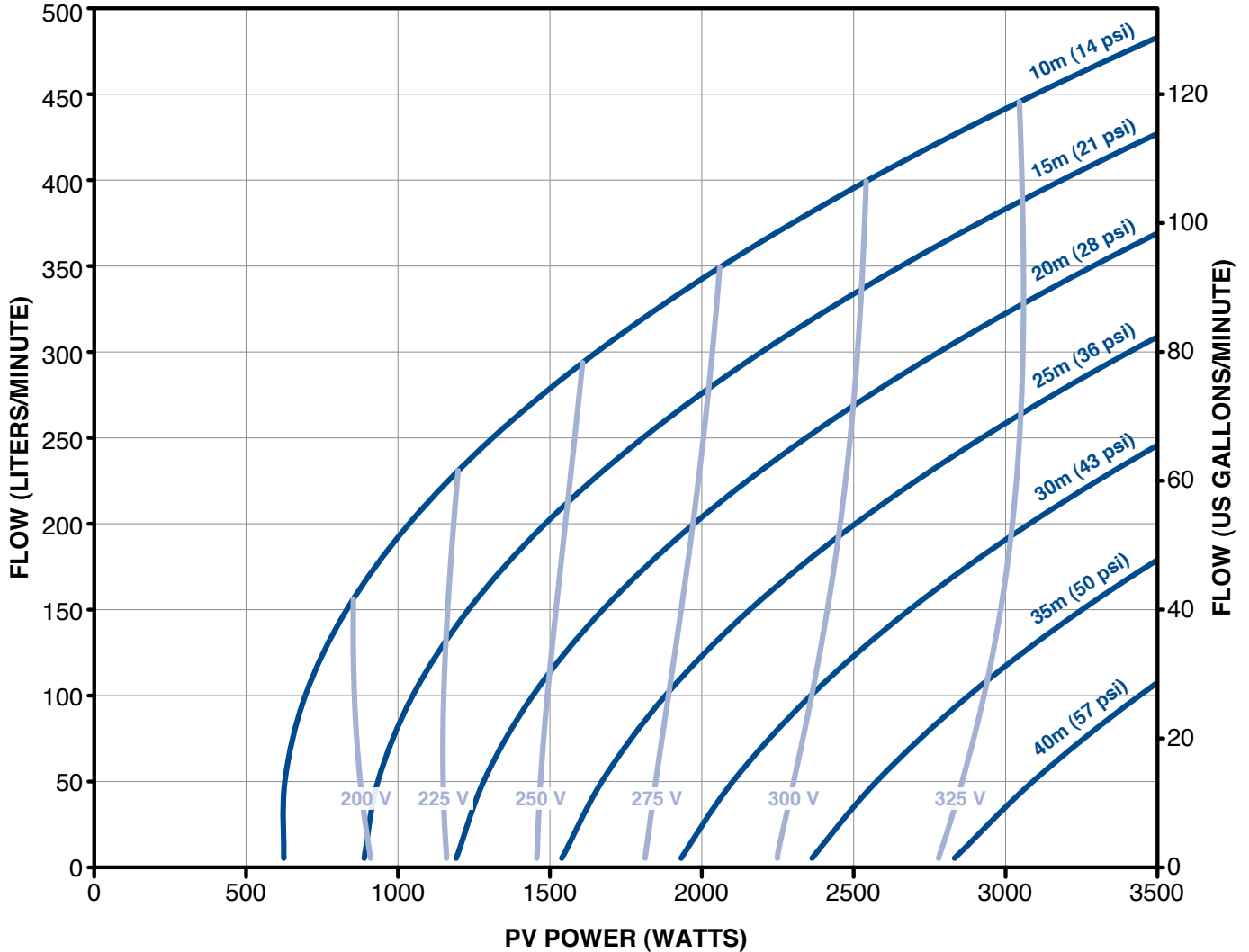
* 1 bar = 10.2 meters of head

**Refer to Drive Specifications table on page 18 for PV source power and voltage recommended operating ranges

Pump Performance

270SDSP-2.2kW

SubDrive Solar 2.2 kW, 270 lpm Pump End, 2.2 kW Motor

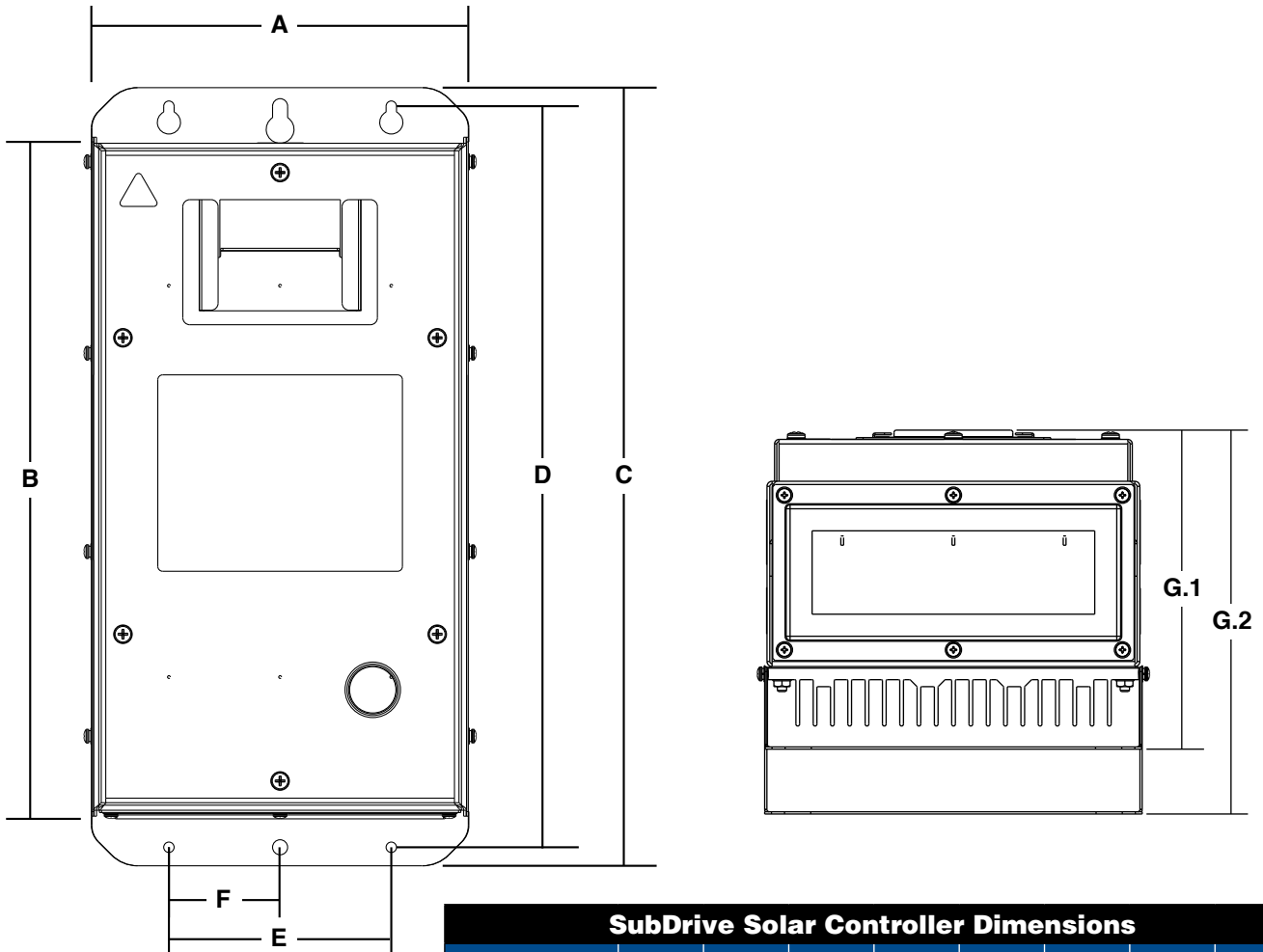


PV Power (Watts)												
	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500
Head (m)												
10	125	192	240	279	312	342	370	395	420	441	463	482
15		82	155	203	242	276	307	334	360	384	406	428
20			38	114	163	204	239	270	297	323	347	370
25					71	123	165	200	230	258	285	310
30						23	80	122	160	190	220	245
35								35	80	118	150	180
40										35	74	110

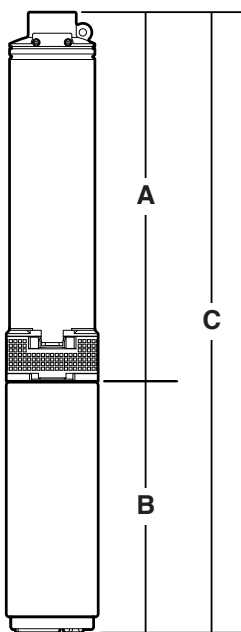
* 1 bar = 10.2 meters of head

**Refer to Drive Specifications table on page 18 for PV source power and voltage recommended operating ranges

Dimensions



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



Solar PMA Dimensions															
lpm	USGPM	kW	hp	Stages	A		B		C		Discharge	PE Weight		PMA Weight	
					mm	inches	mm	inches	mm	inches		kg	lbs	kg	lbs
18	5	1.1	1.5	30	866	34.1	298	11.7	1164	45.8	1 1/4"	9	19	22	48
30	10	1.1	1.5	18	642	25.3	298	11.7	940	37.0	1 1/4"	7	16	20	45
45	15	1.1	1.5	15	521	20.5	298	11.7	819	32.2	1 1/4"	7	15	20	44
70	25	1.1	1.5	10	488	19.2	298	11.7	786	30.9	1 1/4"	5	10	18	39
100	35	1.1	1.5	10	508	20.0	298	11.7	806	31.7	2"	5	11	18	40
150	45	1.1	1.5	7	593	23.3	298	11.7	891	35.1	2"	7	16	20	45
270	90	1.1	1.5	5	575	22.6	298	11.7	873	34.4	2"	7	15	20	44
25	7	2.2	3	30	866	34.1	408	16.1	1274	50.2	1 1/4"	9	20	28	61
30	10	2.2	3	18	645	25.3	408	16.1	1053	41.4	1 1/4"	7	16	26	57
45	15	2.2	3	15	521	20.5	408	16.1	929	36.6	1 1/4"	7	15	25	56
70	25	2.2	3	10	488	19.2	408	16.1	896	35.3	1 1/4"	5	10	23	51
100	35	2.2	3	10	508	20.0	408	16.1	916	36.1	2"	5	11	24	52
150	45	2.2	3	7	593	23.3	408	16.1	1001	39.4	2"	7	16	26	57
270	90	2.2	3	5	575	22.6	408	16.1	983	38.7	2"	7	15	25	56

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

Drive Specifications

SubDrive Solar Controller Specifications			
		1.1 kW model	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 (BSPP)	lpm	Stages	
	18	30	90020508
	25	30	N/A
	30	18	90021011
	45	15	90021511
	70	10	90022511
	100	10	90023511
	150	7	90024511
270	5	90029011	
Controller Size		L X W X D	L X W X D
Centimeters		(53.34 X 25.87 X 21.87cm)	(53.34 X 25.87 X 26.31cm)
Inches		(21.00" X 10.19" X 8.61")	(21.00" X 10.19" X 10.36")
Controller Weight			
		19 kg (41 lbs)	22 kg (47 lbs)
Operating Conditions			
Temperature Range		-25 °C to 50 °C (40 °C max when using AC generator)	-25 °C to 50 °C (40 °C 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.

Circuit Breaker and Maximum Input Cable Lengths – AC Power supply to Controller (metres)

Model Series	Breaker Amps	Volts	mm ²				
			2.5	4	6	10	16
SubDrive Solar 1.1kW	15	208	38	61	92	155	245
	15	230	43	68	102	170	270
SubDrive Solar 2.2kW	30	208			46	77	123
	25	230			61	102	163

Maximum allowable wire lengths are measured between the power service entry point and the controller as a guide; these lengths have been calculated on the basis of standard TPS cabling @ 45°C being used with the SubDrive Solar installation. Franklin Electric recommends that all electrical cable selections should be specified by your electrical professional to ensure they comply with AS/NSZ3000 and National Electrical Codes and /or local codes.

Maximum Motor Cable Length (metres)

	HP	kW	mm ²				
			2.5	4	6	10	16
SubDrive Solar 1.1kW	1.5	1.1	95	160	245	415	
SubDrive Solar 2.2kW	3	2.2	51	86	130	224	365

Maximum allowable wire lengths are measured between the controller and motor as a guide, these lengths have been calculated on the basis of Franklin Electric submersible cabling being used @ 45°C with the SubDrive Solar installation. Franklin Electric recommends that all electrical cable selections should be specified by your electrical professional to ensure they comply with AS/NSZ3000 and National Electrical Codes and /or local codes.

Orange circular & TPS - electrical cable is not rated for submersible use. Warranty void if used. All wiring to comply with AS/NSZ3000 and National Electrical Codes and /or local codes.

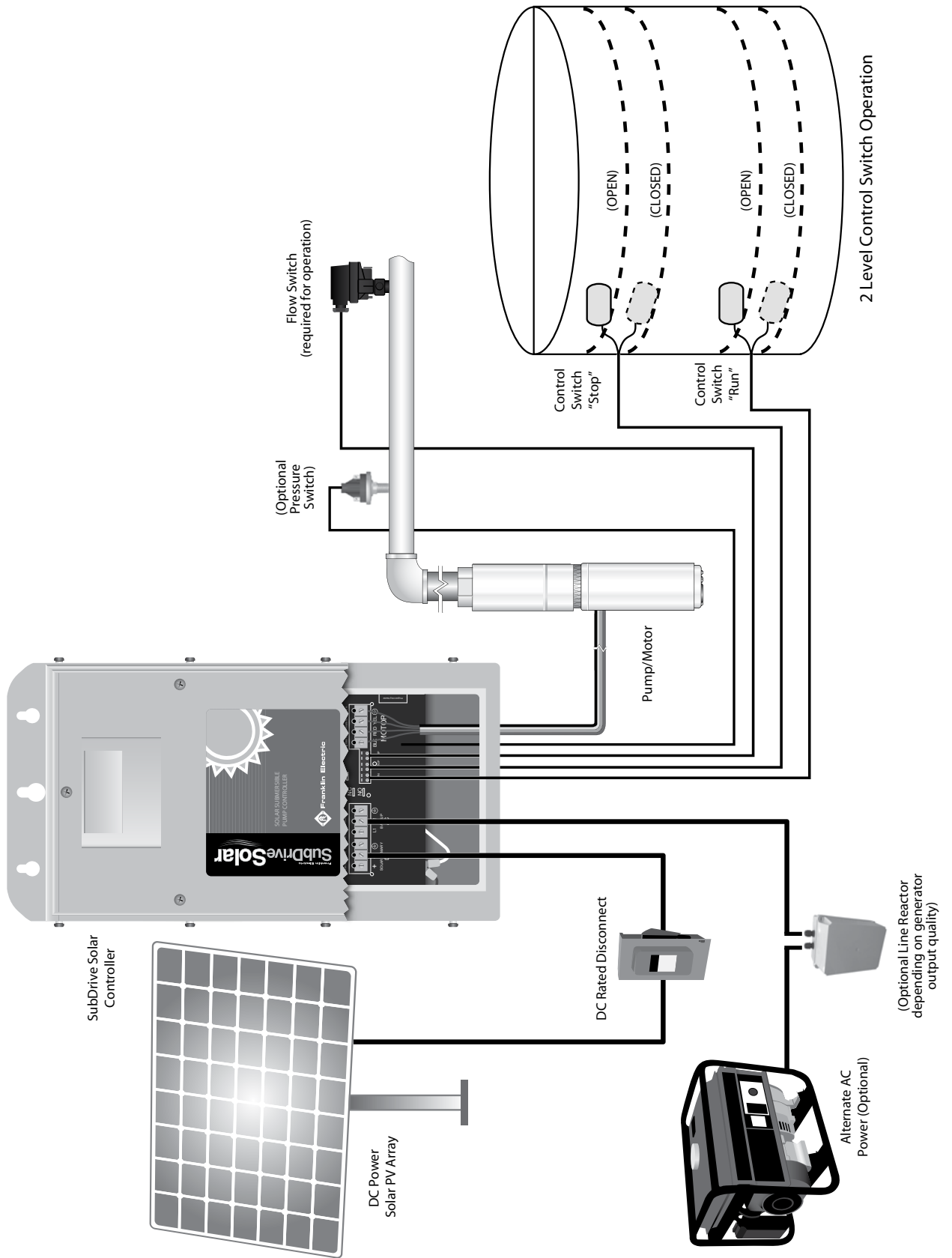
Cautions:

There are many DIY (Do It Yourself) PV solar kits available which you can be self-installed. SubDrive Solar and associated equipment is not a DIY PV System and must be professionally installed.

SubDrive Solar operates at above 90 volts which requires installation by suitably qualified electricians that have been trained on solar PV installations and meet State and Territory regulations.

Any questions relating to your SubDrive Solar installations and any possible rebates can be directed back to the supplying Franklin Dealer or to your solar installer.

System Quick Install Guide



Average* water requirements for stock and farm animals

Stock type	Minimum daily consumption per head per day in litres
Sheep	
– Weaners	2 to 4
Adult dry sheep:	
– Grassland	2 to 6
– Saltbush	4 to 12
Ewes with lambs	4 to 10
Cattle	
Lactating cows:	
– Grassland	40 to 100
– Saltbush	70 to 140
Young stock	25 to 50
Dry stock (400 kg)	35 to 80
Horses	40 to 50
Hogs, Pigs	16 to 22
Chickens (100)	16 to 20
Turkeys (100)	28 to 33

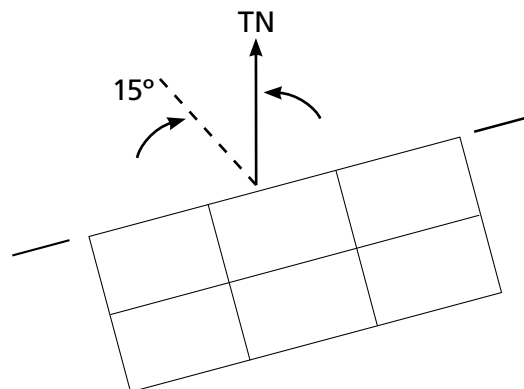
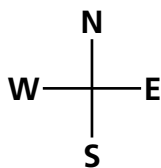
Notes:

Does not include allowances for dissolved solids (salinity), saltbush regions, temperature and climatic variances. Offered as a guide only*.

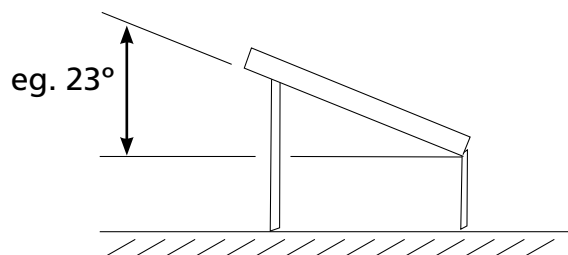
Consult your local state Primary Producer office for more details.

Positioning of solar arrays

- 15° West of true North



2. For elevation:
Your latitude less 5°
eg: -28 S less 5° = -23°



Offered as a guide only.

These diagrams and guidelines are suggestions from various sources to offer the best performances of your solar array and pump output.

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.

User Requirements **Solar Panel Options**

LOCATION
 Degrees Latitude*
 Degrees Longitude*

INPUT REQUIREMENTS
 Total Dynamic Head* Meters

OUTPUT REQUIREMENT
 Solve for: Volume Flow
 Water Volume / Day* gpd

Look up your location

Solar Hours

Month	Solar Hours
Jan	3.08
Feb	3.40
Mar	4.10
Apr	4.85
May	4.77
Jun	5.19
Jul	5.01
Aug	4.95
Sep	4.90
Oct	4.05
Nov	2.74
Dec	2.51

Select peak month for sizing or use annual average value: **Average: 4.16** -or- Month

Solar Array Tracker used: Yes No

SolarPAK Options

BSP NPT

Recommended + Alternative All Products

Overview Curve Chart Flow Rate Chart Cools Size Chart

150SDSP-1.1KW

Part#: 90034520 LPM: 176

Minimum Array Requirements
 Vmp (Volts): 272 Power (Watts): 1511

* 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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