



SUBDRIVE SOLARPAK



SubDrive SOLARPAK

SOLAR PUMPING SYSTEM

Continuous data connection for remote telemetry made available via a RS-485 port.

IP55, NEMA 3 rated enclosure for outdoor use.

DC and AC power supply input. Automatic switching to AC generator backup power if no DC is available from the solar array.

Contacts for up to two level-control switches (can also operate from a pressure switch, used for long pipe runs).

TRIP contact for flow switch to detect dry run conditions and protect the motor.



Easy to read, 3 digit, 7 segment LED display. Provides ease of programming and troubleshooting.

Push button navigation for ease of programming and display control.

Sliding door protects display from wildlife and environmental abuse.

Robust enclosure made of 1.9 and 1.5 mm (14 and 16 gauge) zinc-plated and powder coated steel to stand up to the toughest environmental conditions.

Removable bottom gland plate makes conduit installation simple.



APPLICATIONS

The SubDrive SolarPAK supports submersible pumping applications:

- Livestock watering
- Tank/Cistern filling
- Wildlife refuge and game farms
- Rural water supply for villages and homesteads
- Irrigation systems
- Fountains
- Vineyards
- Renewable energy projects
- Effluent pumping
- Rain harvesting

BUILT-IN DIAGNOSTICS & PROTECTION

The SubDrive SolarPAK includes diagnostic features and built-in protection from potential harmful conditions, including:

- Surge
- Underload/Dry run
- Overvoltage
- Locked pump
- Open circuit
- Short circuit
- Overheated controller
- Reverse polarity
- Dead head



SUBDRIVE SOLARPAK

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For the most up-to-date product information, visit franklinwater.com

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!

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

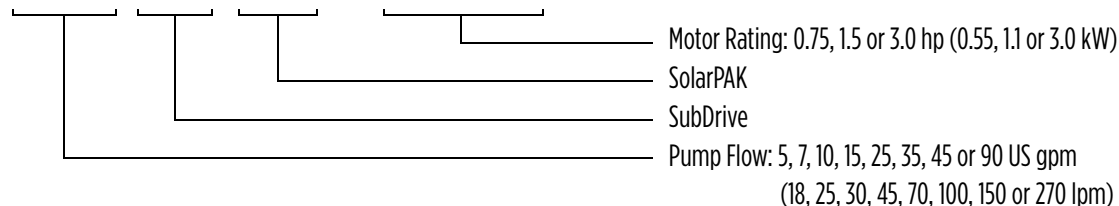


SOLARPAK CONTENTS

- 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: 5, 7, 10, 15, 25, 35, 45 or 90 US gpm (18, 25, 30, 45, 70, 100, 150 or 270 lpm)
- Motor and drive ratings available: 0.75, 1.5 or 3.0 hp (0.55, 1.1 or 2.2 kW)

SOLARPAK NOMENCLATURE

XXX SD SP - X.XHP



SUBDRIVE SOLARPAK - ORDERING INFORMATION

SOLARPAK MODEL NUMBERS

| SolarPAK | | SubDrive Solar Controller | | Solar Pump – NPT | | | | Motor | | Flow Switch NPT | |
|----------------|-------------|---------------------------|------------|------------------|--------|-------------|----------|-------|--------------|-----------------|-----------|
| SolarPAK Model | Order No. | Drive Model | Part No. | US GPM | Stages | Solar Pump | Part No. | HP | Part No. | Model | Part No. |
| 5SDSP-0.75HP | 90040510 | SD Solar 0.55 kW N3 | 5870300553 | 5 | 18 | 5SL07S4-PE | 90020503 | 0.75 | 2349029204GS | C25 | 226014102 |
| 5SDSP-1.5HP | 90040520 | SD Solar 1.1 kW N3 | 5870301113 | 5 | 30 | 5SL15S4-PE | 90020507 | 1.5 | 2345049203S | C25 | 226014102 |
| 7SDSP-0.75HP | 90040710 | SD Solar 0.55 kW N3 | 5870300553 | 7 | 13 | 7SL07S4-PE | 90020703 | 0.75 | 2349029204GS | C25 | 226014102 |
| 7SDSP-3.0HP | 90040730 | SD Solar 2.2 kW N3 | 5870301223 | 7 | 30 | 7SL2S4-PE | 90020710 | 3.0 | 2343062604 | C25 | 226014102 |
| 10SDSP-0.75HP | 90041010 | SD Solar 0.55 kW N3 | 5870300553 | 10 | 8 | 10SL07S4-PE | 90021003 | 0.75 | 2349029204GS | C25 | 226014102 |
| 10SDSP-1.5HP | 90041020 | SD Solar 1.1 kW N3 | 5870301113 | 10 | 18 | 10SL2S4-PE | 90021010 | 1.5 | 2345049203S | C25 | 226014102 |
| 10SDSP-3.0HP | 90041030 | SD Solar 2.2 kW N3 | 5870301223 | 10 | 18 | 10SL2S4-PE | 90021010 | 3.0 | 2343062604 | C25 | 226014102 |
| 15SDSP-0.75HP | 90041510 | SD Solar 0.55 kW N3 | 5870300553 | 15 | 6 | 15SL07S4-PE | 90021503 | 0.75 | 2349029204GS | C25 | 226014102 |
| 15SDSP-1.5HP | 90041520 | SD Solar 1.1 kW N3 | 5870301113 | 15 | 15 | 15SL2S4-PE | 90021510 | 1.5 | 2345049203S | C25 | 226014102 |
| 15SDSP-3.0HP | 90041530 | SD Solar 2.2 kW N3 | 5870301223 | 15 | 15 | 15SL2S4-PE | 90021510 | 3.0 | 2343062604 | C25 | 226014102 |
| 25SDSP-1.5HP | 90042520 | SD Solar 1.1 kW N3 | 5870301113 | 25 | 10 | 25SL2S4-PE | 90022510 | 1.5 | 2345049203S | F21 | 226019102 |
| 25SDSP-3.0HP | 90042530 | SD Solar 2.2 kW N3 | 5870301223 | 25 | 10 | 25SL2S4-PE | 90022510 | 3.0 | 2343062604 | F21 | 226019102 |
| 35SDSP-1.5HP | 90043520(a) | SD Solar 1.1 kW N3 | 5870301113 | 35 | 10 | 35SL2S4-PE | 90023510 | 1.5 | 2345049203S | F21 | 226019102 |
| 35SDSP-3.0HP | 90043530(a) | SD Solar 2.2 kW N3 | 5870301223 | 35 | 10 | 35SL2S4-PE | 90023510 | 3.0 | 2343062604 | F21 | 226019102 |
| 45SDSP-1.5HP | 90044520(a) | SD Solar 1.1 kW N3 | 5870301113 | 45 | 7 | 45SL2S4-PE | 90024510 | 1.5 | 2345049203S | F21 | 226019102 |
| 45SDSP-3.0HP | 90044530(a) | SD Solar 2.2 kW N3 | 5870301223 | 45 | 7 | 45SL2S4-PE | 90024510 | 3.0 | 2343062604 | F21 | 226019102 |
| 90SDSP-1.5HP | 90049020(a) | SD Solar 1.1 kW N3 | 5870301113 | 90 | 5 | 90SL2S4-PE | 90029010 | 1.5 | 2345049203S | F21 | 226019102 |
| 90SDSP-3.0HP | 90049030(a) | SD Solar 2.2 kW N3 | 5870301223 | 90 | 5 | 90SL2S4-PE | 90029010 | 3.0 | 2343062604 | F21 | 226019102 |

| 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-0.55KW | 90030510 | SD Solar 0.55 kW N3 | 5870300553 | 18 | 18 | 18SL07S4-PEXB | 90020504 | 0.55 | 2349029204GS | C25 | 226014101 |
| 18SDSP-1.1KW | 90030520 | SD Solar 1.1 kW N3 | 5870301113 | 18 | 30 | 18SL15S4-PEXB | 90020508 | 1.1 | 2345049203S | C25 | 226014101 |
| 25SDSP-0.55KW | 90030710 | SD Solar 0.55 kW N3 | 5870300553 | 25 | 13 | 25SL07S4-PEXB | 90020704 | 0.55 | 2349029204GS | C25 | 226014101 |
| 25SDSP-2.2KW | 90030730 | SD Solar 2.2 kW N3 | 5870301223 | 25 | 30 | 25SL15S4-PEXB | 90020711 | 2.2 | 2343062604 | C25 | 226014101 |
| 30SDSP-0.55KW | 90031010 | SD Solar 0.55 kW N3 | 5870300553 | 30 | 8 | 30SL07S4-PEXB | 90021004 | 0.55 | 2349029204GS | 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-0.55KW | 90031510 | SD Solar 0.55 kW N3 | 5870300553 | 45 | 6 | 45SL07S4-PEXB | 90021504 | 0.55 | 2349029204GS | 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-30 foot (10 meter) cable for use with the flow switch is included in the controller packaging

** 316SS motors available on request

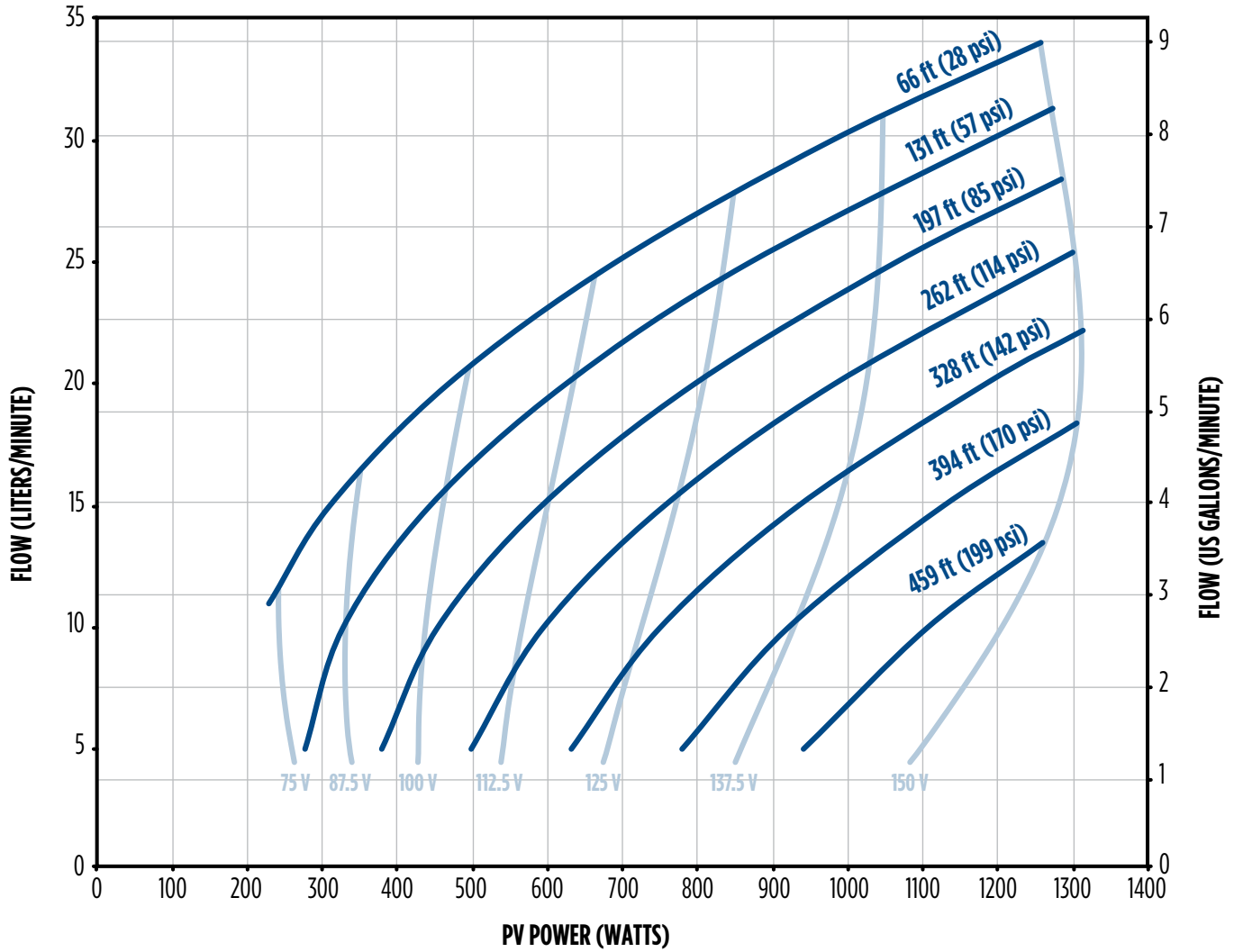
*** Motors shown above include an individual conductor lead installed in the motor. For replacement motors without a lead, use part numbers: 1.5 hp / 1.1 kW (2345041903S) and 3.0 hp / 2.2 kW (2343062504)

(a) High capacity pumps, 35 US gpm (100 lpm) and higher, in a SolarPAK are not supplied with an internal check valve.

SUBDRIVE SOLARPAK - 0.75 PERFORMANCE

5SDSP-0.75HP

SubDrive Solar 0.75 hp Controller, 5 US gpm 0.75 hp Pump End, 0.75 hp Motor



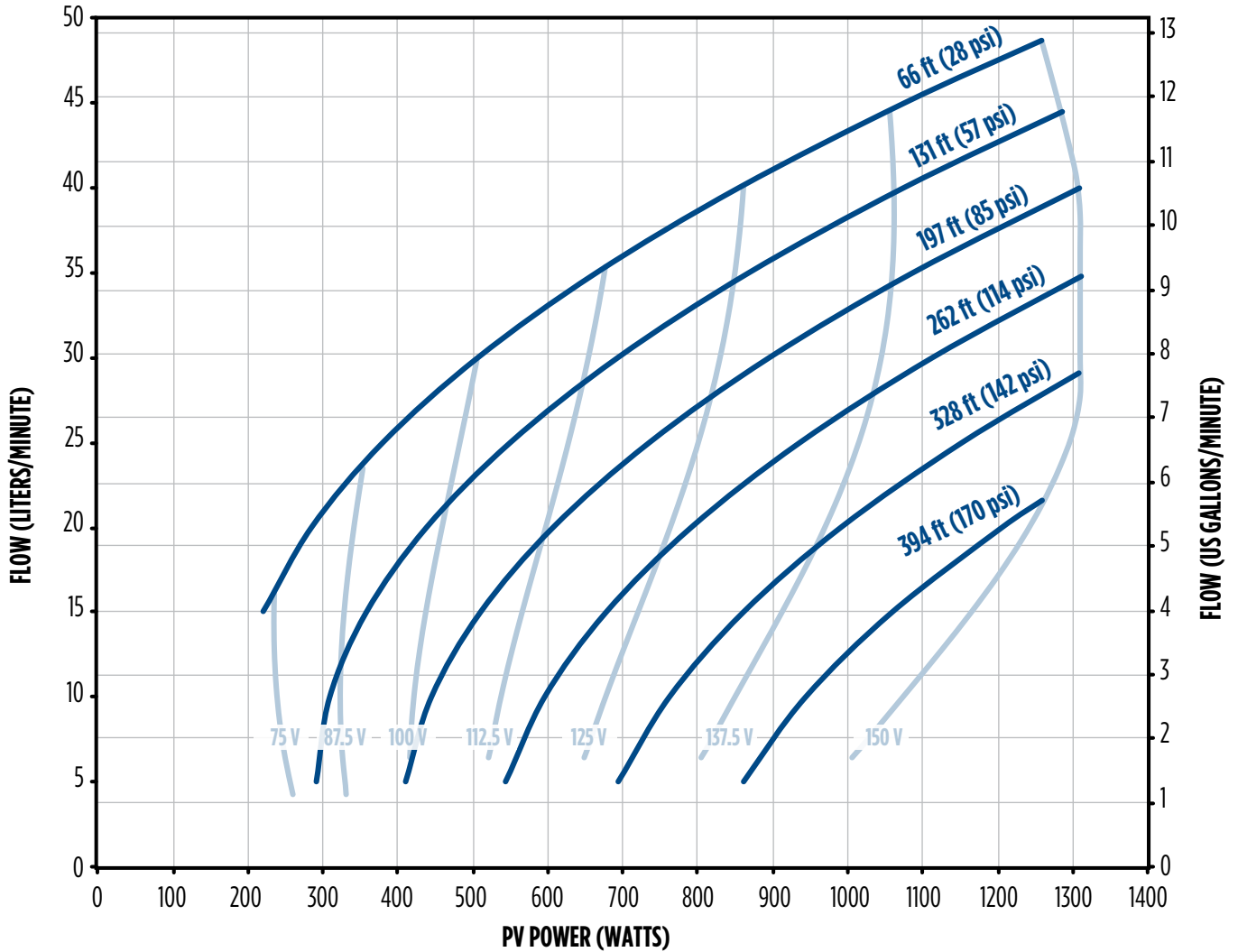
| TDH (ft) | PV Power (Watts) | | | | | | | | | | | |
|----------|------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 |
| | Flow (US GPM) | | | | | | | | | | | |
| 66 | | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | |
| 131 | | 2 | 3 | 4 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | |
| 197 | | | 2 | 3 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | |
| 262 | | | | 1 | 3 | 3 | 4 | 5 | 5 | 6 | 6 | 7 |
| 328 | | | | | | 2 | 3 | 4 | 4 | 5 | 5 | 6 |
| 394 | | | | | | | 2 | 2 | 3 | 4 | 4 | 5 |
| 459 | | | | | | | | | 2 | 3 | 3 | |

NOTE: Refer to Drive Specifications table on page 23 for PV source power and voltage-recommended operating ranges

SUBDRIVE SOLARPAK - 0.75 PERFORMANCE

7SDSP-0.75HP

SubDrive Solar 0.75 hp Controller, 7 US gpm 0.75 hp Pump End, 0.75 hp Motor



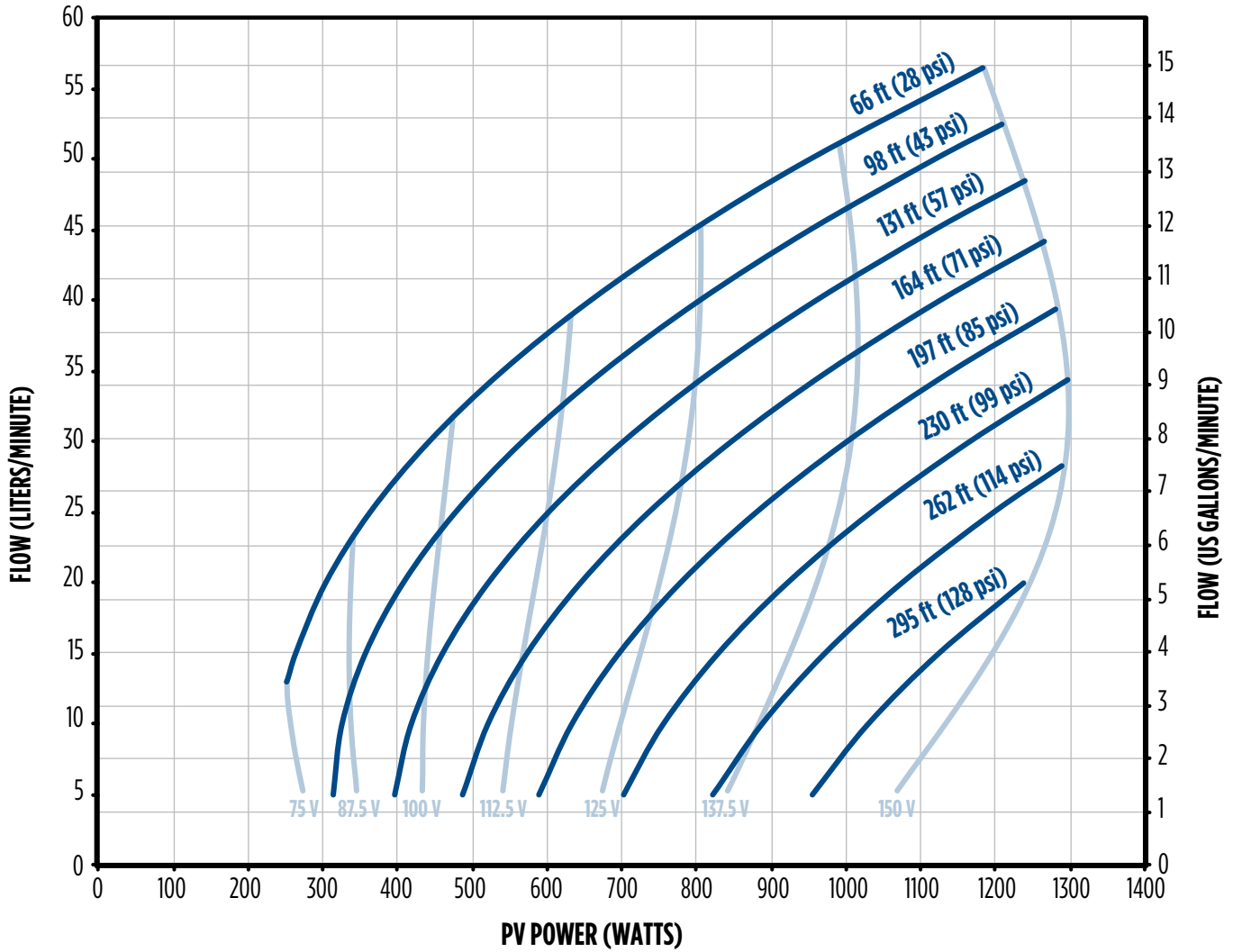
| TDH (ft) | PV Power (Watts) | | | | | | | | | | | |
|----------|------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 |
| | Flow (US GPM) | | | | | | | | | | | |
| 66 | | 5 | 7 | 8 | 9 | 9 | 10 | 11 | 11 | 12 | 12 | |
| 131 | | 2 | 5 | 6 | 7 | 8 | 9 | 9 | 10 | 11 | 11 | |
| 197 | | | | 4 | 5 | 6 | 7 | 8 | 9 | 9 | 10 | 10 |
| 262 | | | | | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 |
| 328 | | | | | | 1 | 3 | 4 | 5 | 6 | 7 | 8 |
| 394 | | | | | | | | 2 | 3 | 4 | 5 | |

NOTE: Refer to Drive Specifications table on page 23 for PV source power and voltage-recommended operating ranges

SUBDRIVE SOLARPAK - 0.75 PERFORMANCE

10SDSP-0.75HP

SubDrive Solar 0.75 hp Controller, 10 US gpm 0.75 hp Pump End, 0.75 hp Motor



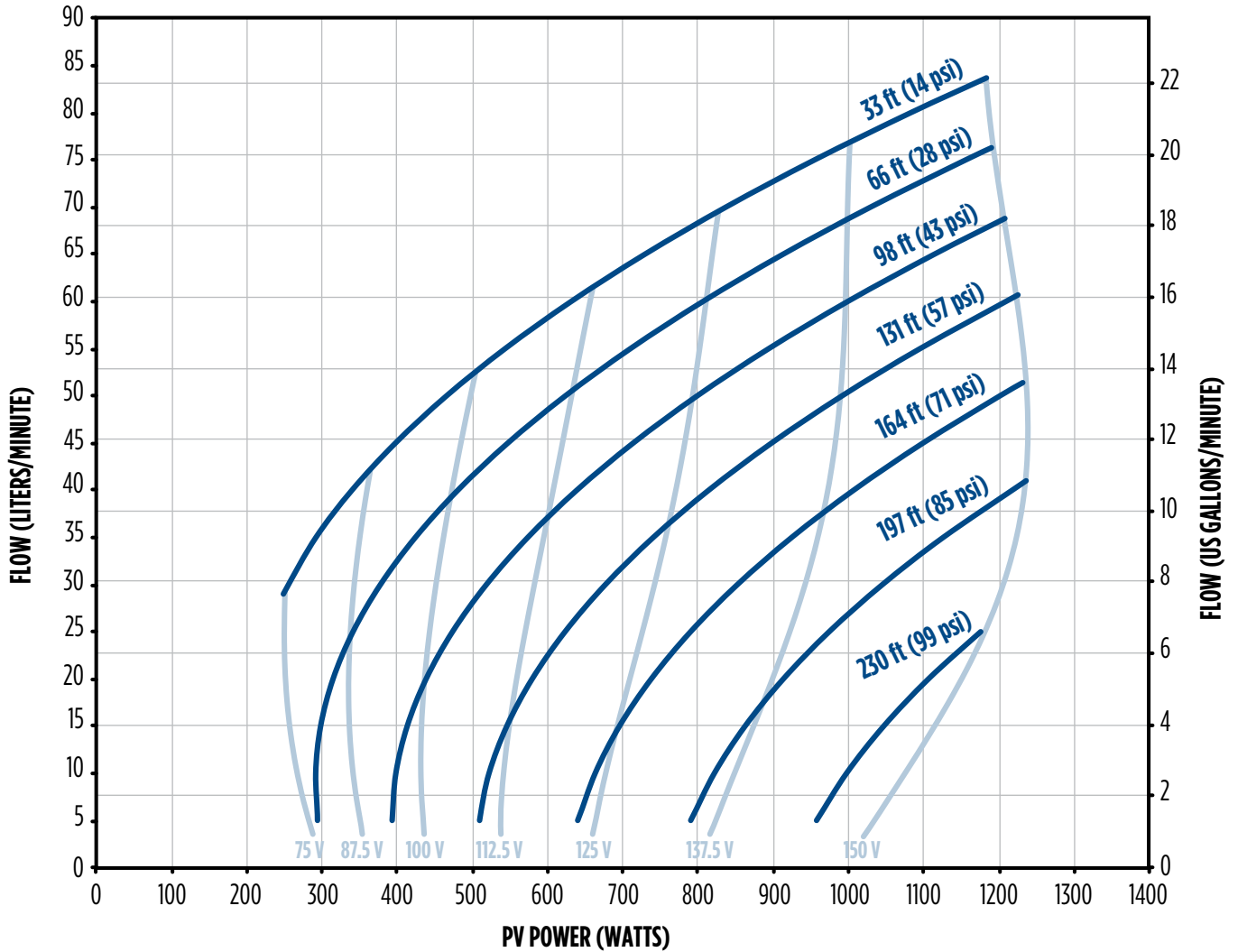
| TDH (ft) | PV Power (Watts) | | | | | | | | | | | |
|----------|------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 |
| | Flow (US GPM) | | | | | | | | | | | |
| 66 | | 5 | 7 | 9 | 10 | 11 | 12 | 13 | 13 | 14 | | |
| 98 | | | 5 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| 131 | | | 2 | 5 | 6 | 8 | 9 | 10 | 11 | 12 | 12 | |
| 164 | | | | 2 | 4 | 6 | 7 | 8 | 9 | 10 | 11 | |
| 197 | | | | | 2 | 4 | 5 | 7 | 8 | 9 | 10 | |
| 230 | | | | | | | 3 | 5 | 6 | 7 | 8 | 9 |
| 262 | | | | | | | | 3 | 4 | 5 | 6 | |
| 295 | | | | | | | | | 2 | 3 | 5 | |

NOTE: Refer to Drive Specifications table on page 23 for PV source power and voltage-recommended operating ranges

SUBDRIVE SOLARPAK - 0.75 PERFORMANCE

15SDSP-0.75HP

SubDrive Solar 0.75 hp Controller, 15 US gpm 0.75 hp Pump End, 0.75 hp Motor



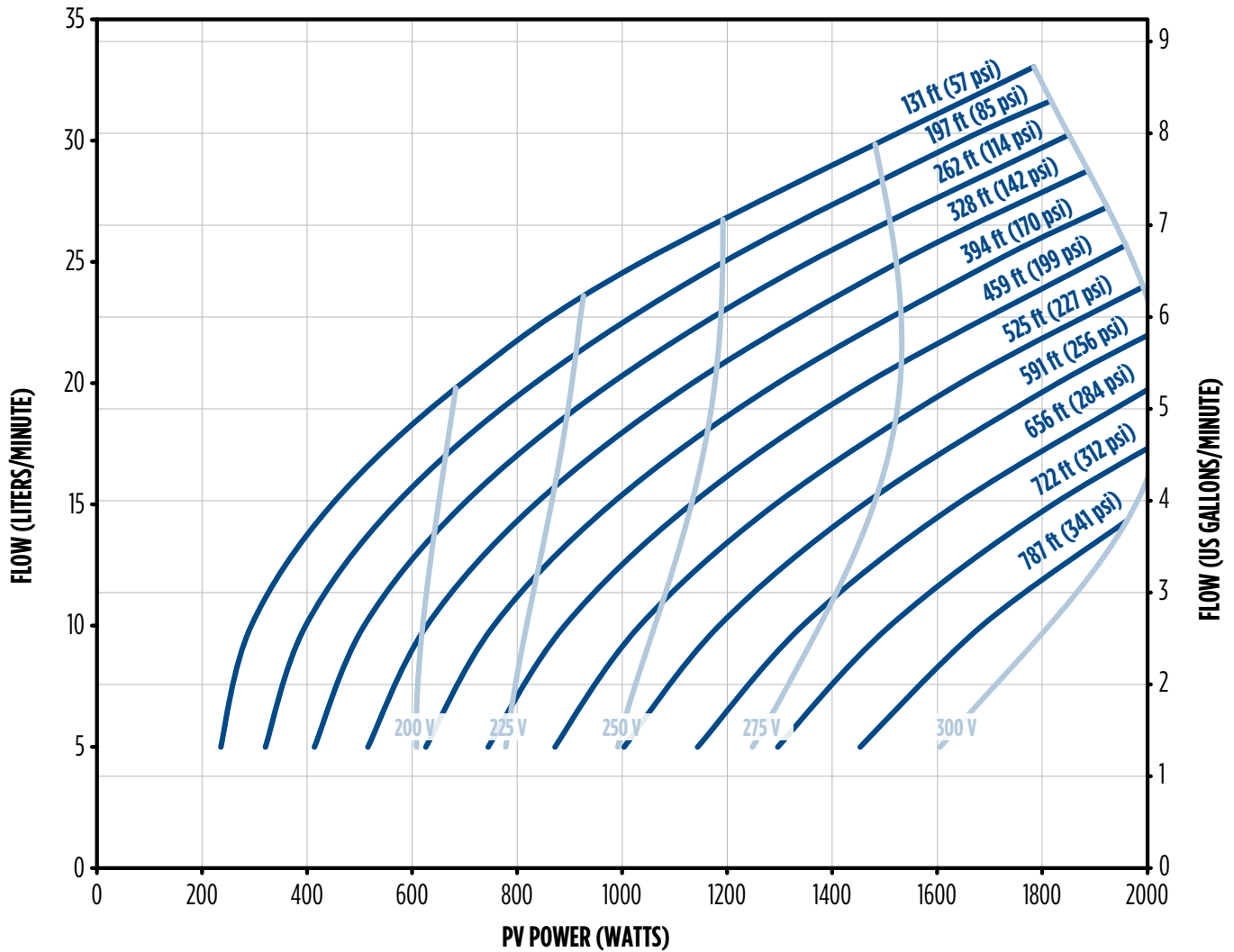
| TDH (ft) | PV Power (Watts) | | | | | | | | | | | |
|----------|------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 |
| | Flow (US GPM) | | | | | | | | | | | |
| 33 | | 9 | 12 | 14 | 15 | 17 | 18 | 19 | 20 | 21 | | |
| 66 | | 4 | 8 | 11 | 13 | 14 | 16 | 17 | 18 | 19 | | |
| 98 | | | 3 | 7 | 10 | 12 | 13 | 15 | 16 | 17 | 18 | |
| 131 | | | | | 6 | 8 | 10 | 12 | 13 | 14 | 16 | |
| 164 | | | | | | 4 | 7 | 9 | 10 | 12 | 13 | |
| 197 | | | | | | | 2 | 5 | 7 | 9 | 10 | |
| 230 | | | | | | | | | 3 | 5 | | |

NOTE: Refer to Drive Specifications table on page 23 for PV source power and voltage-recommended operating ranges

SUBDRIVE SOLARPAK - 1.5 PERFORMANCE

5SDSP-1.5HP

SubDrive Solar 1.5 hp Controller, 5 US gpm 1.5 hp Pump End, 1.5 hp Motor



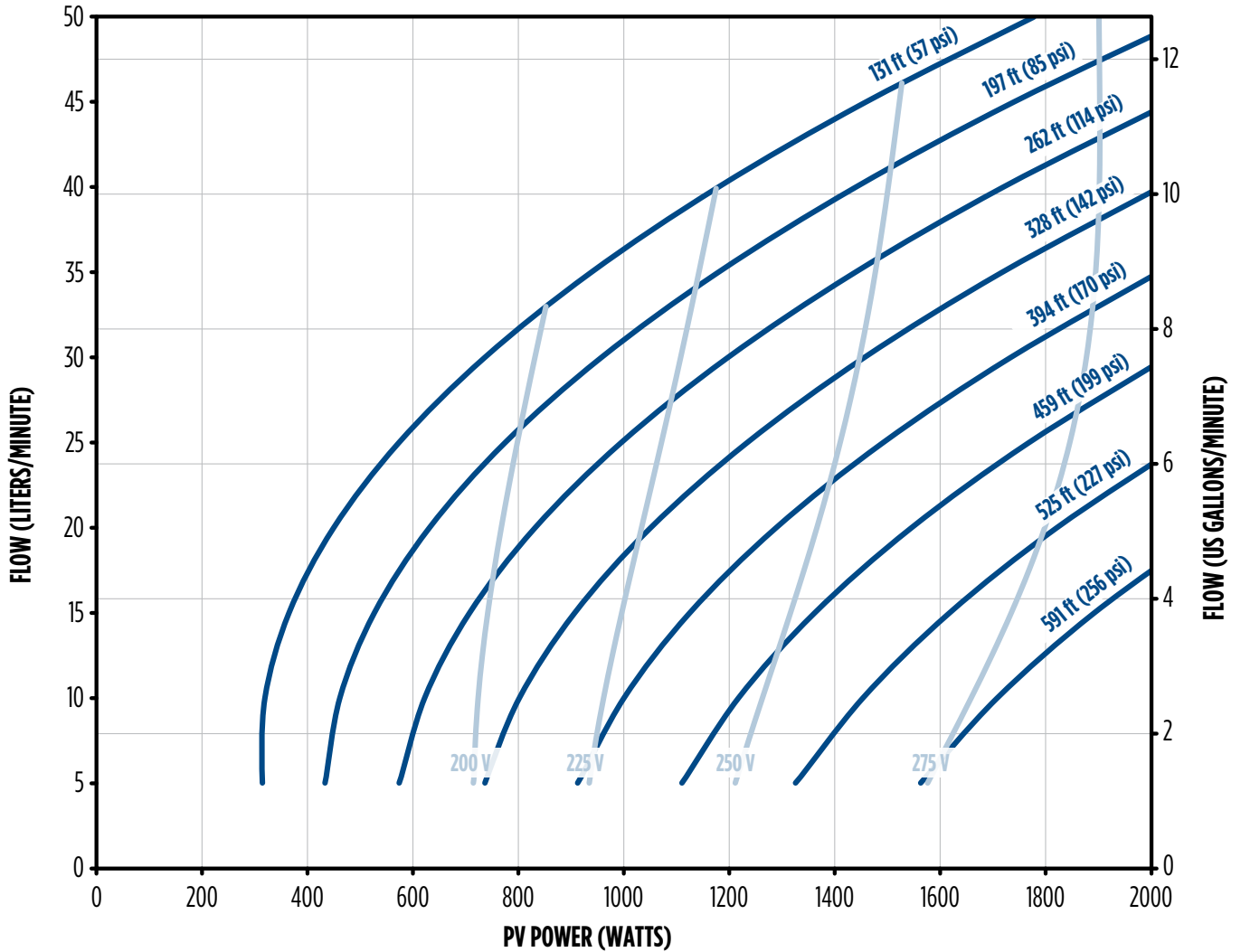
| TDH (ft) | PV Power (Watts) | | | | | | | | | |
|----------|------------------|-----|-----|-----|------|------|------|------|------|------|
| | 200 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
| | Flow (US GPM) | | | | | | | | | |
| 131 | | 4 | 5 | 6 | 6 | 7 | 8 | 8 | 9 | |
| 197 | | 3 | 4 | 5 | 6 | 7 | 7 | 8 | 8 | |
| 262 | | | 3 | 5 | 5 | 6 | 7 | 7 | 8 | |
| 328 | | | 2 | 4 | 5 | 6 | 6 | 7 | 7 | |
| 394 | | | | 3 | 4 | 5 | 6 | 6 | 7 | |
| 459 | | | | 2 | 3 | 4 | 5 | 6 | 6 | |
| 525 | | | | | 2 | 4 | 4 | 5 | 6 | 6 |
| 591 | | | | | 1 | 3 | 4 | 4 | 5 | 6 |
| 656 | | | | | | 2 | 3 | 4 | 5 | 5 |
| 722 | | | | | | | 2 | 3 | 4 | 5 |
| 787 | | | | | | | | 2 | 3 | |

NOTE: Refer to Drive Specifications table on page 23 for PV source power and voltage-recommended operating ranges

SUBDRIVE SOLARPAK - 1.5 PERFORMANCE

10SDSP-1.5HP

SubDrive Solar 1.5 hp Controller, 10 US gpm 2.0 hp Pump End, 1.5 hp Motor



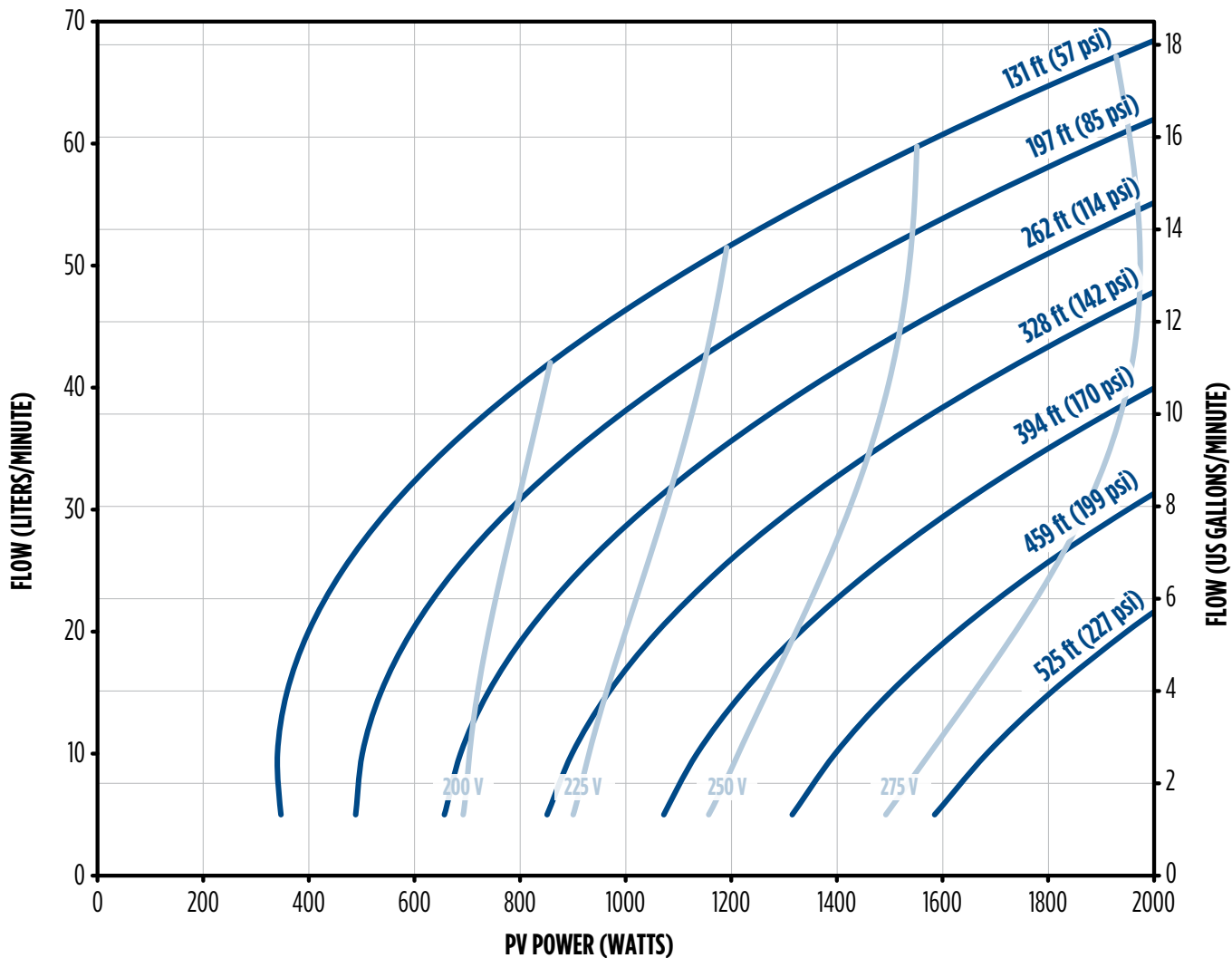
| TDH (ft) | PV Power (Watts) | | | | | | | | | |
|----------|------------------|-----|-----|-----|------|------|------|------|------|------|
| | 200 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
| | Flow (US GPM) | | | | | | | | | |
| 131 | | 5 | 7 | 8 | 10 | 11 | 12 | 12 | 13 | |
| 197 | | | 5 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 262 | | | 2 | 5 | 7 | 8 | 9 | 10 | 11 | 12 |
| 328 | | | | 3 | 5 | 6 | 8 | 9 | 10 | 11 |
| 394 | | | | | 3 | 5 | 6 | 7 | 8 | 9 |
| 459 | | | | | | 2 | 4 | 6 | 7 | 8 |
| 525 | | | | | | | 2 | 4 | 5 | 6 |
| 591 | | | | | | | | 2 | 3 | 5 |

NOTE: Refer to Drive Specifications table on page 23 for PV source power and voltage-recommended operating ranges

SUBDRIVE SOLARPAK - 1.5 PERFORMANCE

15SDSP-1.5HP

SubDrive Solar 1.5 hp Controller, 15 US gpm 2.0 hp Pump End, 1.5 hp Motor



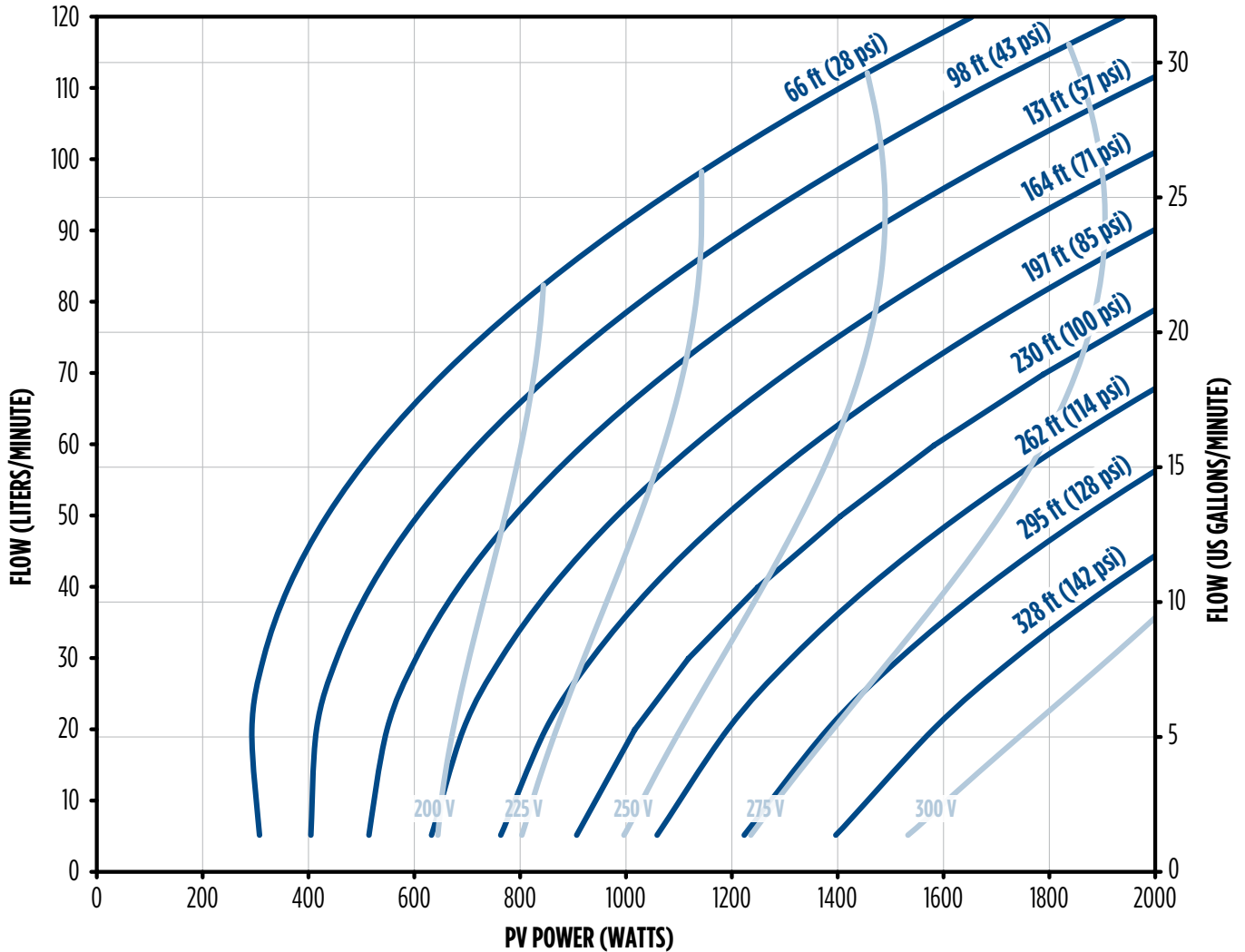
| TDH (ft) | PV Power (Watts) | | | | | | | | | |
|----------|------------------|-----|-----|-----|------|------|------|------|------|------|
| | 200 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
| | Flow (US GPM) | | | | | | | | | |
| 131 | | 5 | 8 | 11 | 12 | 14 | 15 | 16 | 17 | 18 |
| 197 | | | 6 | 8 | 13 | 12 | 13 | 14 | 15 | 16 |
| 262 | | | | 5 | 8 | 10 | 11 | 12 | 13 | 15 |
| 328 | | | | | 4 | 7 | 9 | 10 | 11 | 13 |
| 394 | | | | | | 4 | 6 | 8 | 9 | 11 |
| 459 | | | | | | | 3 | 5 | 9 | 8 |
| 525 | | | | | | | | 2 | 4 | 6 |

NOTE: Refer to Drive Specifications table on page 23 for PV source power and voltage-recommended operating ranges

SUBDRIVE SOLARPAK - 1.5 PERFORMANCE

25SDSP-1.5HP

SubDrive Solar 1.5 hp Controller, 25 US gpm 2.0 hp Pump End, 1.5 hp Motor



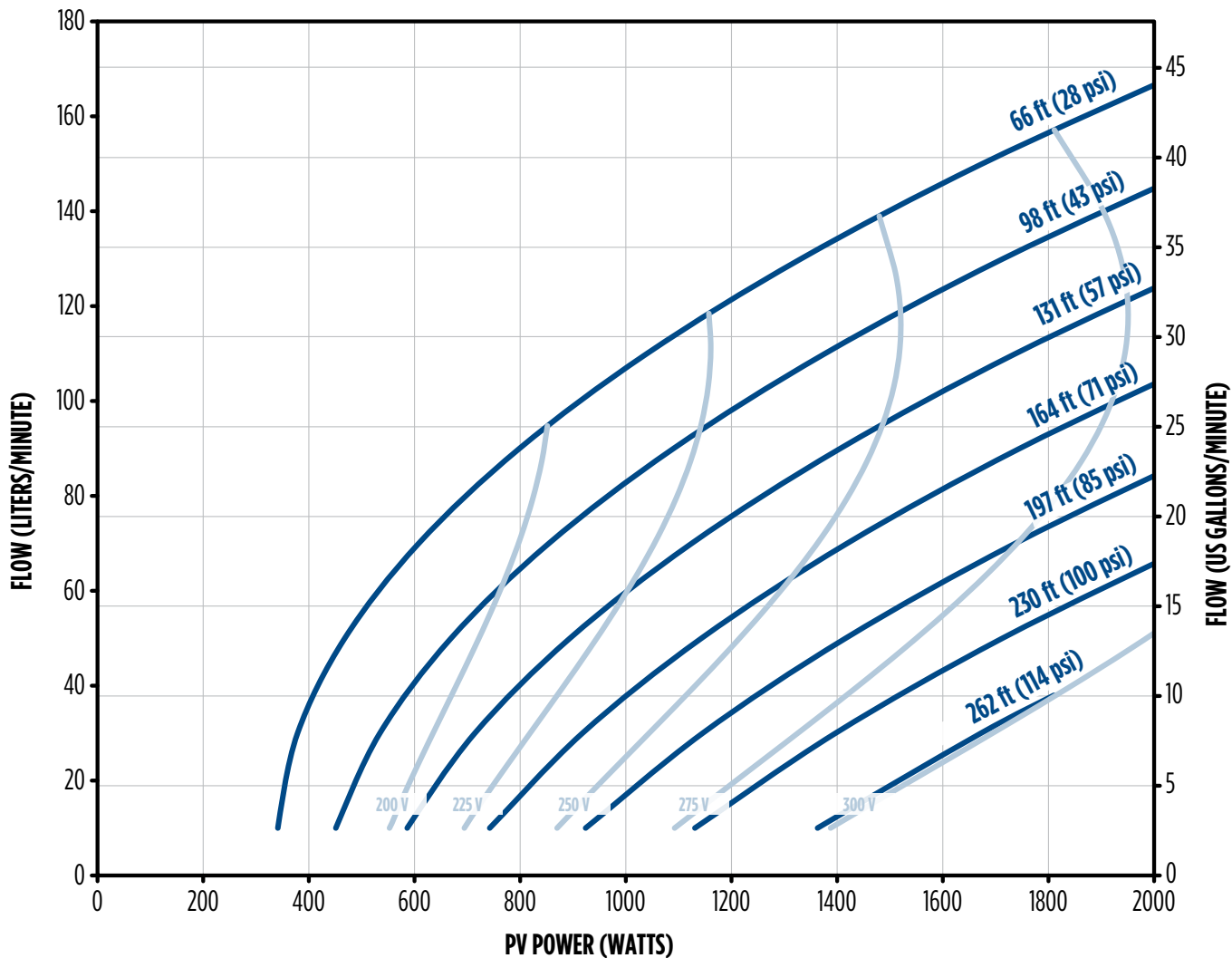
| TDH (ft) | PV Power (Watts) | | | | | | | | | |
|----------|------------------|-----|-----|-----|------|------|------|------|------|------|
| | 200 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
| | Flow (US GPM) | | | | | | | | | |
| 66 | | 12 | 17 | 21 | 24 | 27 | 29 | 31 | | |
| 98 | | | 13 | 17 | 21 | 24 | 26 | 28 | 30 | |
| 131 | | | 8 | 13 | 17 | 20 | 23 | 25 | 27 | 30 |
| 164 | | | | 9 | 14 | 17 | 20 | 22 | 25 | 27 |
| 197 | | | | 3 | 10 | 13 | 17 | 19 | 22 | 24 |
| 230 | | | | | 5 | 10 | 13 | 16 | 19 | 21 |
| 262 | | | | | | 6 | 10 | 13 | 15 | 18 |
| 295 | | | | | | | 6 | 9 | 12 | 15 |
| 328 | | | | | | | 1 | 6 | 9 | 12 |

NOTE: Refer to Drive Specifications table on page 23 for PV source power and voltage-recommended operating ranges

SUBDRIVE SOLARPAK - 1.5 PERFORMANCE

35SDSP-1.5HP

SubDrive Solar 1.5 hp Controller, 35 US gpm 2.0 hp Pump End, 1.5 hp Motor



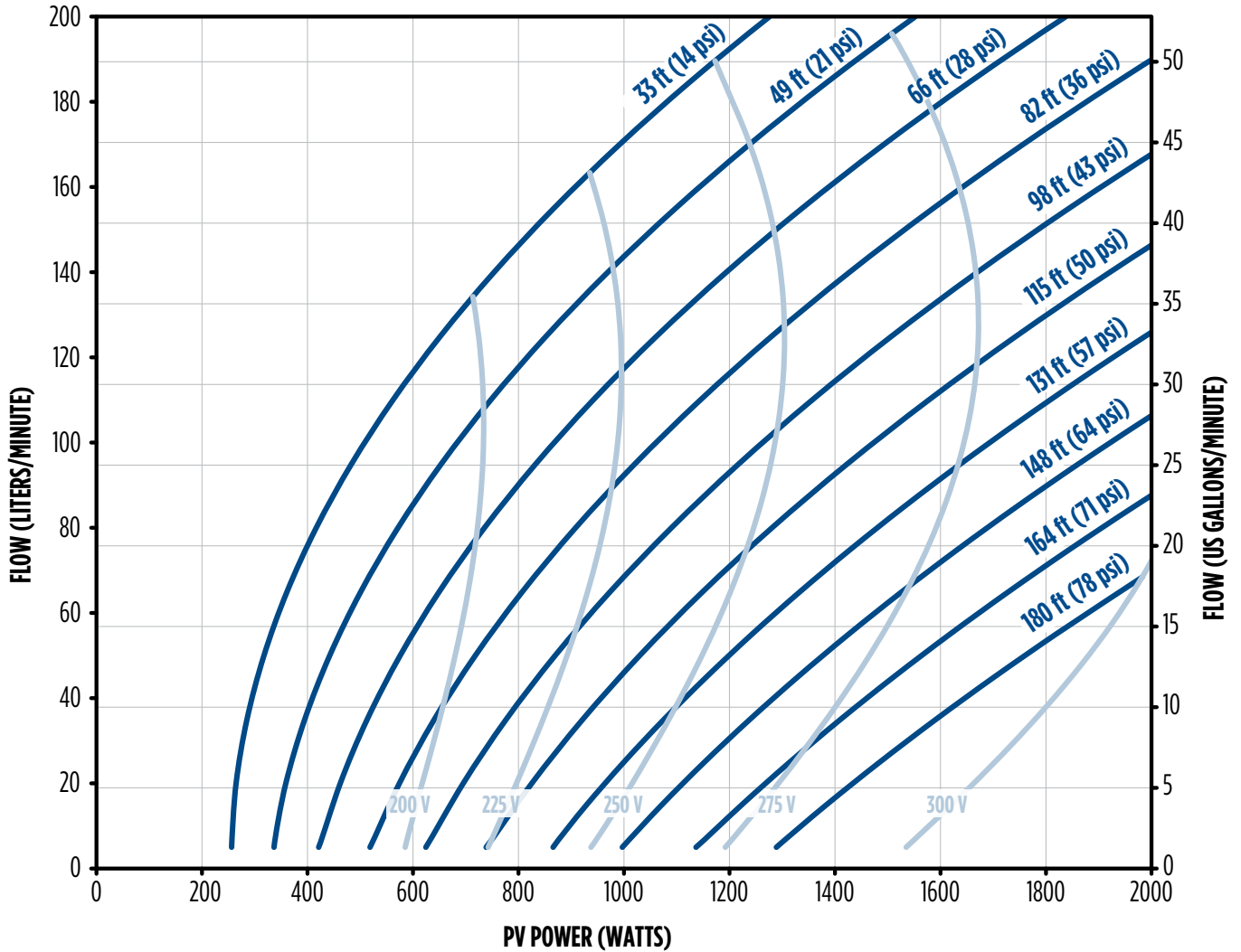
| TDH (ft) | PV Power (Watts) | | | | | | | | | |
|----------|------------------|-----|-----|-----|------|------|------|------|------|------|
| | 200 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
| | Flow (US GPM) | | | | | | | | | |
| 66 | | 10 | 18 | 24 | 28 | 32 | 36 | 39 | 41 | 44 |
| 98 | | | 11 | 17 | 22 | 26 | 30 | 33 | 36 | 38 |
| 131 | | | 3 | 11 | 16 | 20 | 24 | 27 | 30 | 33 |
| 164 | | | | 4 | 10 | 15 | 18 | 21 | 25 | 27 |
| 197 | | | | | 4 | 9 | 13 | 16 | 20 | 22 |
| 230 | | | | | | 4 | 8 | 11 | 15 | 17 |
| 262 | | | | | | | 3 | 7 | 10 | |

NOTE: Refer to Drive Specifications table on page 23 for PV source power and voltage-recommended operating ranges

SUBDRIVE SOLARPAK - 1.5 PERFORMANCE

45SDSP-1.5HP

SubDrive Solar 1.5 hp Controller, 45 US gpm 2.0 hp Pump End, 1.5 hp Motor



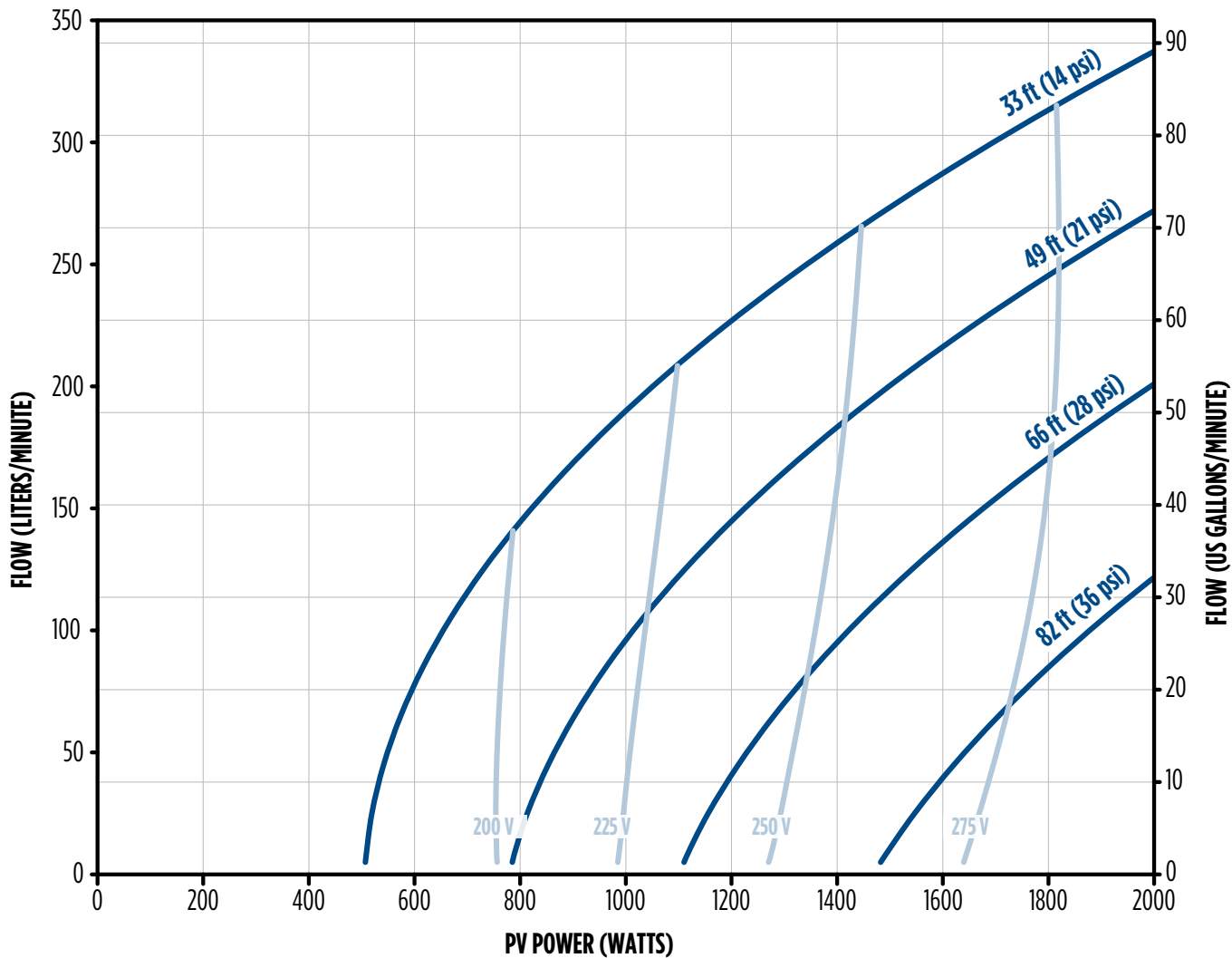
| TDH (ft) | PV Power (Watts) | | | | | | | | | |
|----------|------------------|-----|-----|-----|------|------|------|------|------|------|
| | 200 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
| | Flow (US GPM) | | | | | | | | | |
| 33 | | 20 | 31 | 39 | 45 | 51 | | | | |
| 49 | | 10 | 23 | 31 | 38 | 44 | 49 | | | |
| 66 | | | 15 | 24 | 31 | 37 | 43 | 48 | 52 | |
| 82 | | | 7 | 17 | 25 | 31 | 36 | 41 | 46 | 50 |
| 98 | | | | 11 | 18 | 25 | 30 | 35 | 40 | 44 |
| 115 | | | | 4 | 12 | 19 | 25 | 30 | 34 | 39 |
| 131 | | | | | 7 | 13 | 19 | 24 | 29 | 33 |
| 148 | | | | | | 8 | 14 | 19 | 24 | 28 |
| 164 | | | | | | 3 | 9 | 14 | 19 | 23 |
| 180 | | | | | | | 5 | 10 | 14 | |

NOTE: Refer to Drive Specifications table on page 23 for PV source power and voltage-recommended operating ranges

SUBDRIVE SOLARPAK - 1.5 PERFORMANCE

90SDSP-1.5HP

SubDrive Solar 1.5 hp Controller, 90 US gpm 2.0 hp Pump End, 1.5 hp Motor



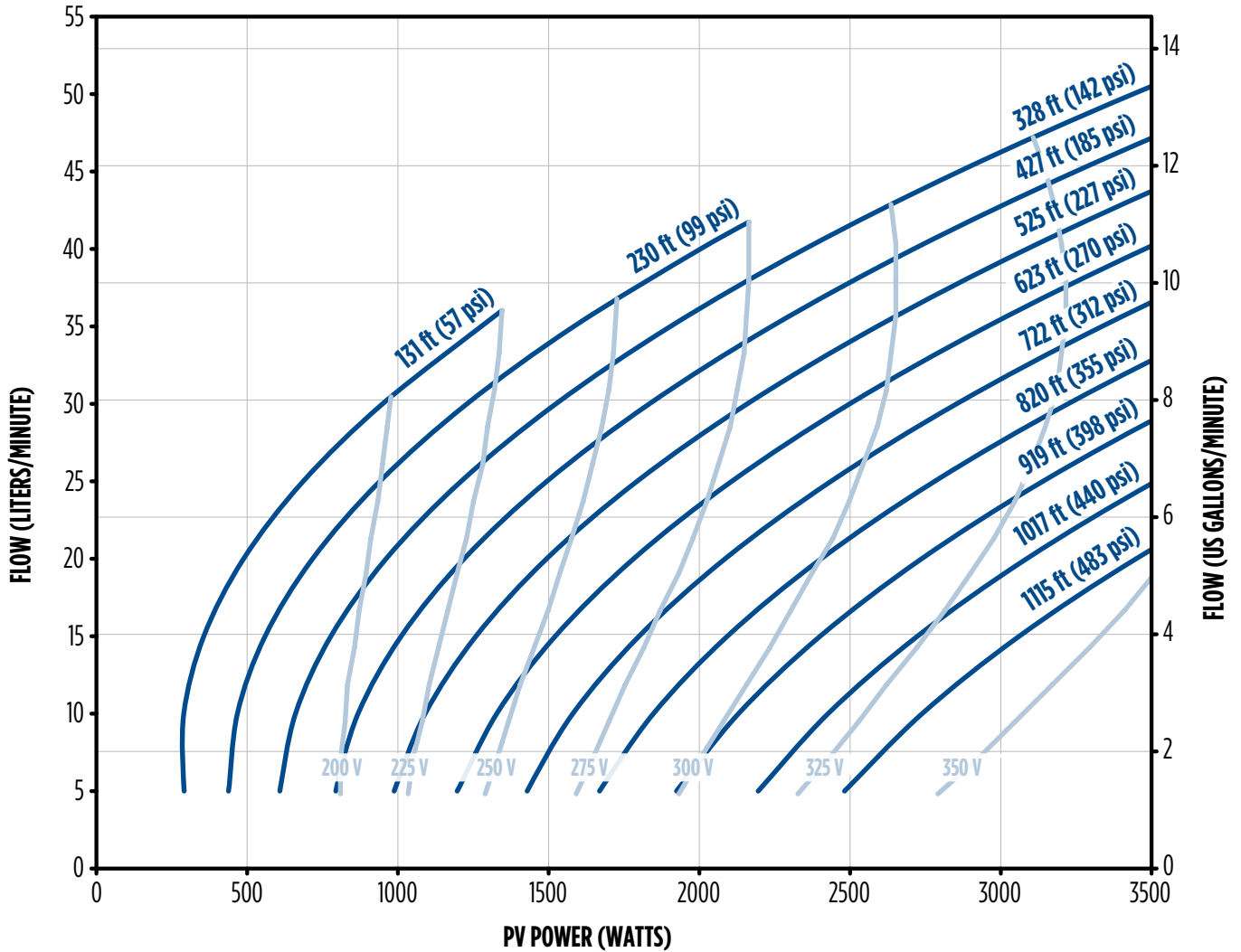
| TDH (ft) | PV Power (Watts) | | | | | | | | | |
|----------|------------------|-----|-----|-----|------|------|------|------|------|------|
| | 200 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
| | Flow (US GPM) | | | | | | | | | |
| 33 | | | 21 | 38 | 50 | 60 | 69 | 76 | 83 | 91 |
| 49 | | | | 5 | 26 | 38 | 49 | 57 | 65 | 72 |
| 66 | | | | | | 12 | 25 | 36 | 45 | 53 |
| 82 | | | | | | | | 11 | 22 | 32 |

NOTE: Refer to Drive Specifications table on page 23 for PV source power and voltage-recommended operating ranges

SUBDRIVE SOLARPAK - 3.0 PERFORMANCE

7SDSP-3.0HP

SubDrive Solar 3.0 hp Controller, 7 US gpm 2.0 hp Pump End, 3.0 hp Motor



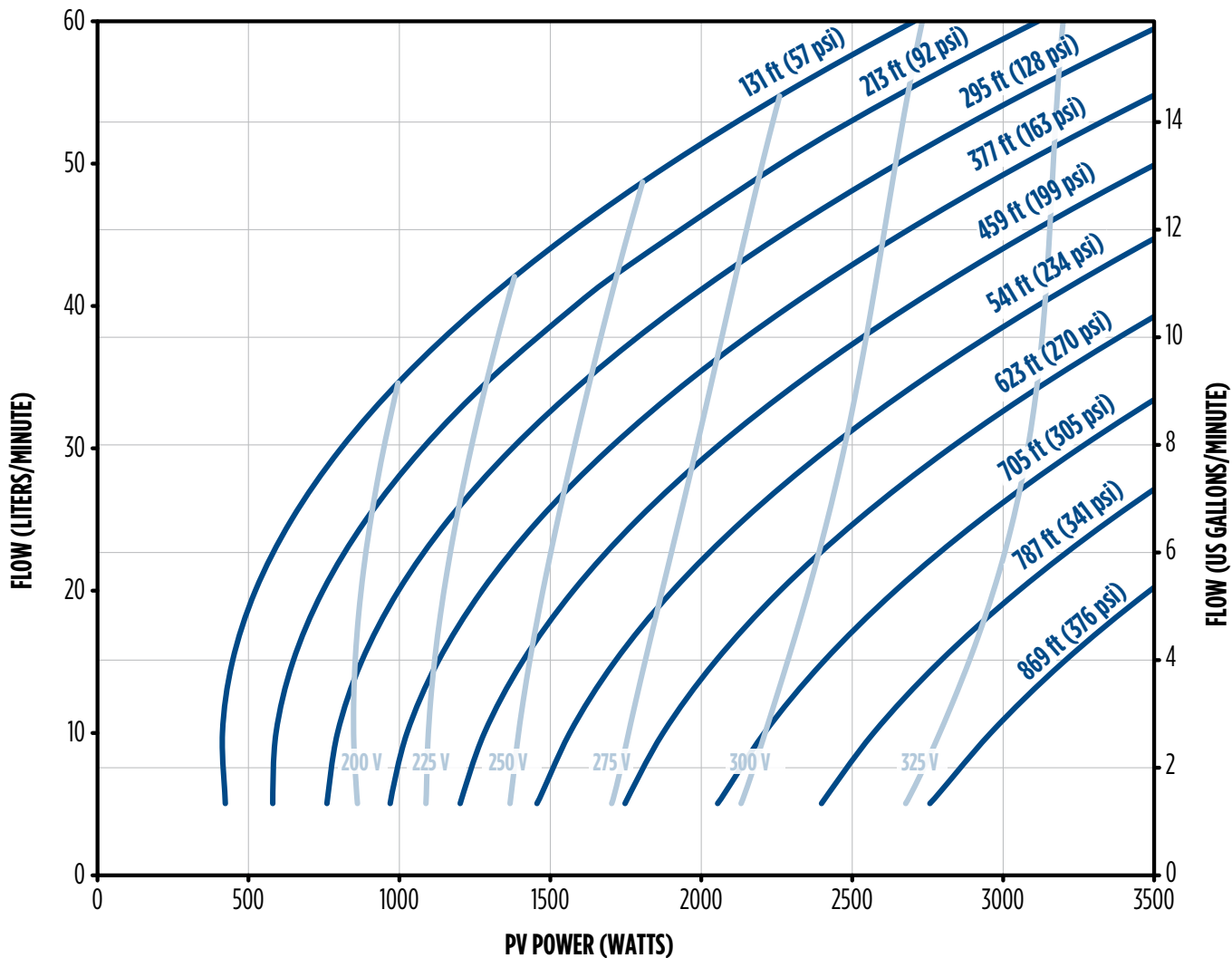
| TDH (ft) | PV Power (Watts) | | | | | | | | | | | |
|----------|------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 750 | 1000 | 1250 | 1500 | 1750 | 2000 | 2250 | 2500 | 2750 | 3000 | 3250 | 3500 |
| | Flow (US GPM) | | | | | | | | | | | |
| 131 | 7 | 8 | 9 | | | | | | | | | |
| 230 | 5 | 7 | 8 | 9 | 10 | 11 | 11 | | | | | |
| 328 | 4 | 6 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 12 | 13 | 13 |
| 427 | | 4 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 11 | 12 | 12 |
| 525 | | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 10 | 11 | 12 |
| 623 | | | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | 10 | 11 |
| 722 | | | | 2 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 10 |
| 820 | | | | | 2 | 3 | 5 | 6 | 7 | 7 | 8 | 9 |
| 919 | | | | | | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1017 | | | | | | | 2 | 3 | 4 | 5 | 6 | 7 |
| 1115 | | | | | | | | 1 | 3 | 4 | 5 | 6 |

NOTE: Refer to Drive Specifications table on page 23 for PV source power and voltage-recommended operating ranges

SUBDRIVE SOLARPAK - 3.0 PERFORMANCE

10SDSP-3.0HP

SubDrive Solar 3.0 hp Controller, 10 US gpm 2.0 hp Pump End, 3.0 hp Motor



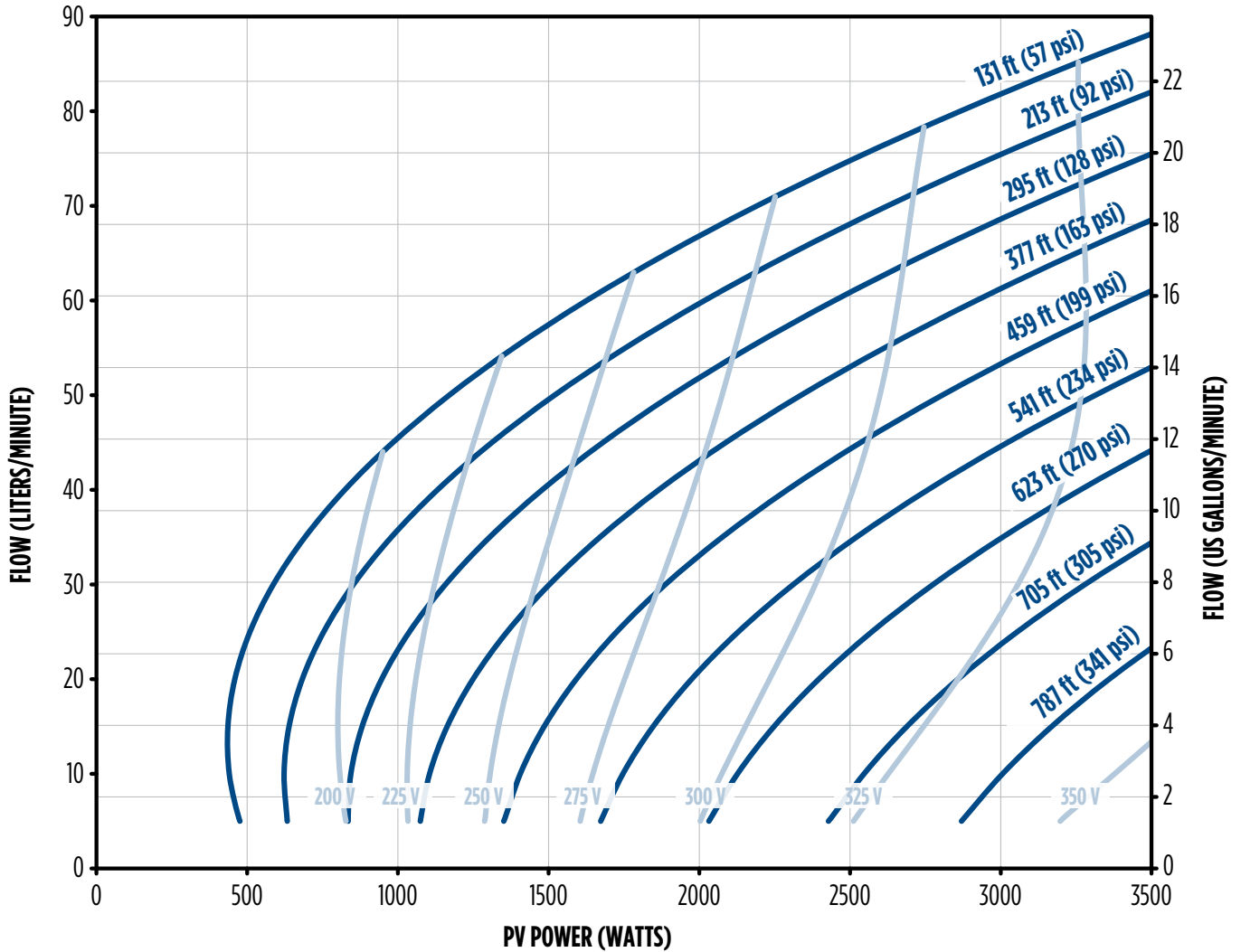
| TDH (ft) | PV Power (Watts) | | | | | | | | | | | |
|----------|------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 750 | 1000 | 1250 | 1500 | 1750 | 2000 | 2250 | 2500 | 2750 | 3000 | 3250 | 3500 |
| | Flow (US GPM) | | | | | | | | | | | |
| 131 | 7 | 9 | 11 | 12 | 13 | 13 | 15 | 15 | 16 | | | |
| 213 | 5 | 7 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | |
| 295 | 1 | 5 | 7 | 9 | 10 | 11 | 12 | 13 | 13 | 14 | 15 | 16 |
| 377 | | 2 | 5 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 459 | | | 2 | 5 | 6 | 8 | 9 | 10 | 11 | 12 | 12 | 13 |
| 541 | | | | 2 | 4 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 623 | | | | | 1 | 4 | 5 | 7 | 8 | 9 | 10 | 10 |
| 705 | | | | | | | 3 | 4 | 6 | 7 | 8 | 9 |
| 787 | | | | | | | | 2 | 4 | 5 | 6 | 7 |
| 869 | | | | | | | | | 1 | 3 | 4 | 5 |

NOTE: Refer to Drive Specifications table on page 23 for PV source power and voltage-recommended operating ranges

SUBDRIVE SOLARPAK - 3.0 PERFORMANCE

15SDSP-3.0HP

SubDrive Solar 3.0 hp Controller, 15 US gpm 2.0 hp Pump End, 3.0 hp Motor



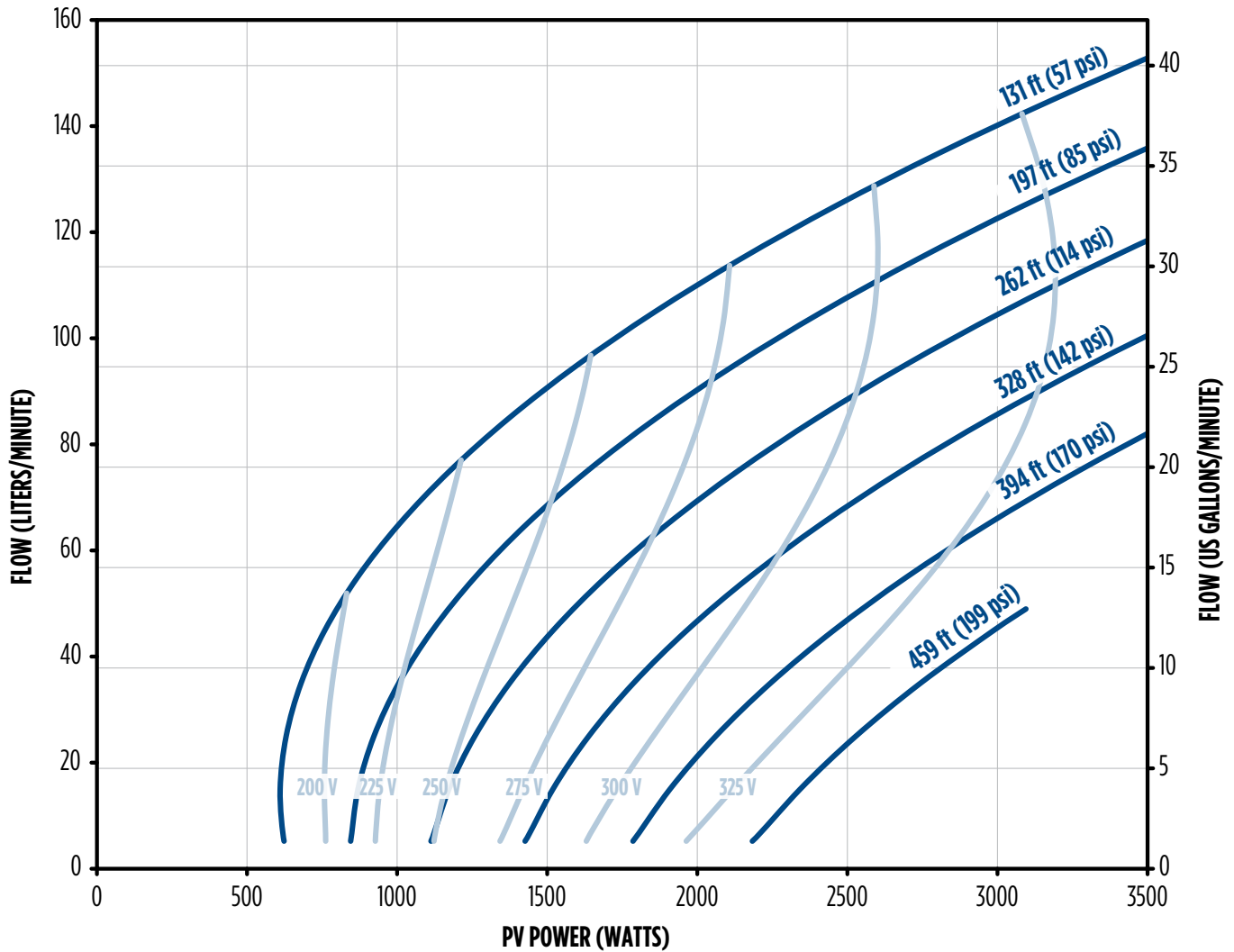
| TDH (ft) | PV Power (Watts) | | | | | | | | | | | |
|----------|------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 750 | 1000 | 1250 | 1500 | 1750 | 2000 | 2250 | 2500 | 2750 | 3000 | 3250 | 3500 |
| | Flow (US GPM) | | | | | | | | | | | |
| 131 | 10 | 12 | 14 | 15 | 17 | 18 | 19 | 20 | 21 | 22 | 22 | 23 |
| 213 | 7 | 10 | 12 | 13 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 295 | | 6 | 9 | 11 | 12 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 377 | | | 5 | 8 | 10 | 11 | 13 | 14 | 15 | 16 | 17 | 18 |
| 459 | | | | 4 | 7 | 9 | 10 | 12 | 13 | 14 | 15 | 16 |
| 541 | | | | | 3 | 6 | 7 | 9 | 11 | 12 | 13 | 14 |
| 623 | | | | | | 4 | 6 | 8 | 9 | 11 | 12 | 12 |
| 705 | | | | | | | 2 | 4 | 6 | 8 | 9 | 9 |
| 787 | | | | | | | | | 3 | 4 | 6 | 6 |

NOTE: Refer to Drive Specifications table on page 23 for PV source power and voltage-recommended operating ranges

SUBDRIVE SOLARPAK - 3.0 PERFORMANCE

25SDSP-3.0HP

SubDrive Solar 3.0 hp Controller, 25 US gpm 2.0 hp Pump End, 3.0 hp Motor



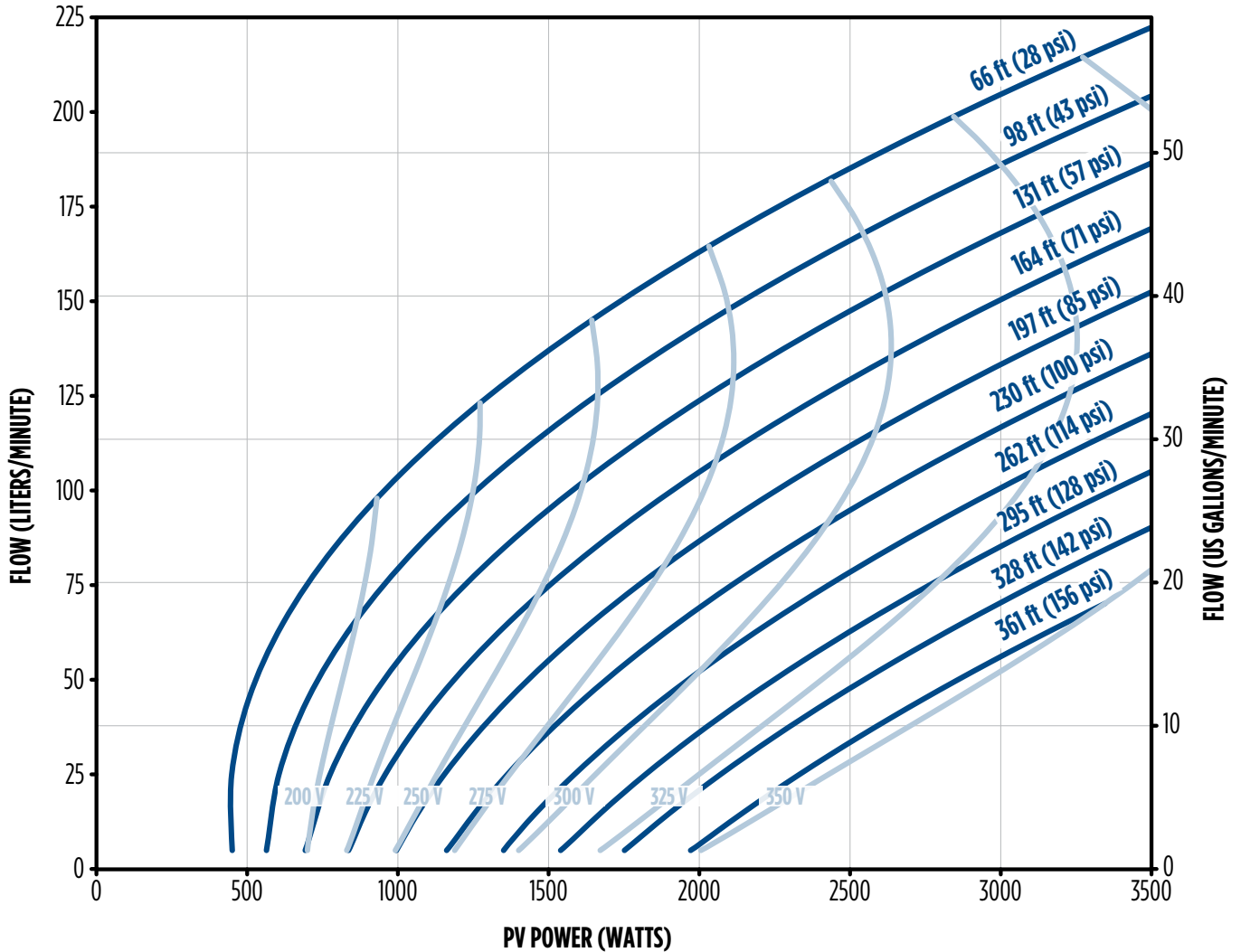
| TDH (ft) | PV Power (Watts) | | | | | | | | | | | |
|----------|------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 750 | 1000 | 1250 | 1500 | 1750 | 2000 | 2250 | 2500 | 2750 | 3000 | 3250 | 3500 |
| | Flow (US GPM) | | | | | | | | | | | |
| 131 | 12 | 17 | 21 | 24 | 27 | 29 | 31 | 33 | 35 | 37 | 39 | 40 |
| 197 | | 9 | 14 | 18 | 21 | 24 | 26 | 29 | 31 | 32 | 34 | 36 |
| 262 | | | 6 | 11 | 15 | 18 | 21 | 23 | 26 | 28 | 30 | 31 |
| 328 | | | | 3 | 9 | 12 | 15 | 18 | 20 | 23 | 25 | 27 |
| 394 | | | | | | 6 | 9 | 12 | 15 | 17 | 20 | 22 |
| 459 | | | | | | | 3 | 6 | 10 | 12 | | |

NOTE: Refer to Drive Specifications table on page 23 for PV source power and voltage-recommended operating ranges

SUBDRIVE SOLARPAK - 3.0 PERFORMANCE

35SDSP-3.0HP

SubDrive Solar 3.0 hp Controller, 35 US gpm 2.0 hp Pump End, 3.0 hp Motor



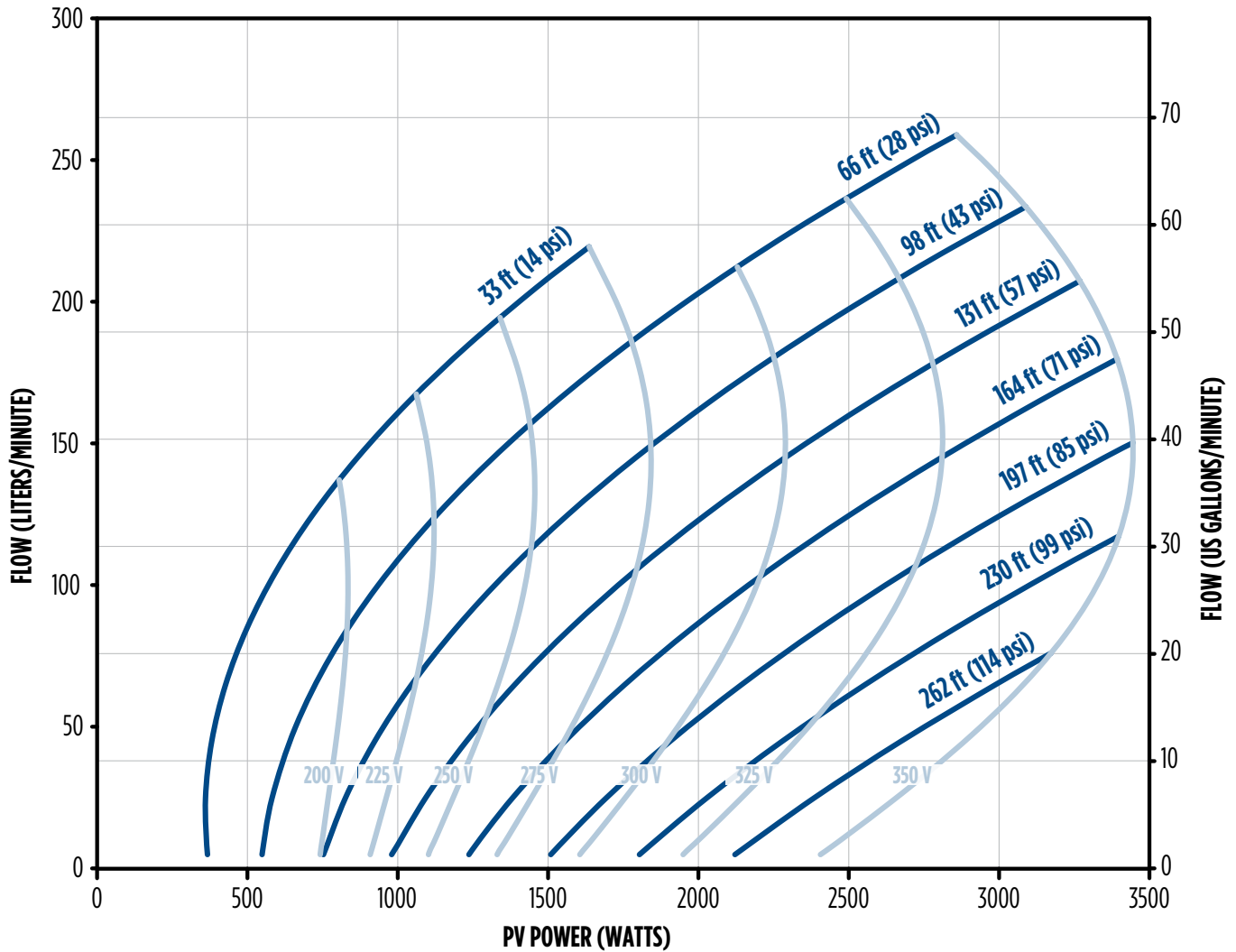
| TDH (ft) | PV Power (Watts) | | | | | | | | | | | |
|----------|------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 750 | 1000 | 1250 | 1500 | 1750 | 2000 | 2250 | 2500 | 2750 | 3000 | 3250 | 3500 |
| | Flow (US GPM) | | | | | | | | | | | |
| 66 | 22 | 27 | 32 | 36 | 40 | 43 | 46 | 49 | 52 | 54 | 57 | 59 |
| 98 | 14 | 21 | 26 | 31 | 34 | 38 | 41 | 44 | 47 | 49 | 52 | 54 |
| 131 | 5 | 15 | 20 | 25 | 29 | 33 | 36 | 39 | 42 | 44 | 47 | 49 |
| 164 | | 8 | 15 | 20 | 24 | 28 | 31 | 34 | 37 | 40 | 42 | 45 |
| 197 | | | 9 | 15 | 19 | 23 | 26 | 30 | 32 | 35 | 38 | 40 |
| 230 | | | 4 | 10 | 14 | 18 | 22 | 25 | 28 | 31 | 33 | 36 |
| 262 | | | | 5 | 10 | 14 | 17 | 21 | 24 | 27 | 29 | 32 |
| 295 | | | | | 5 | 10 | 13 | 17 | 20 | 22 | 25 | 28 |
| 328 | | | | | | 6 | 9 | 13 | 16 | 18 | 21 | 24 |
| 361 | | | | | | | 6 | 9 | 12 | 15 | 17 | |

NOTE: Refer to Drive Specifications table on page 23 for PV source power and voltage-recommended operating ranges

SUBDRIVE SOLARPAK - 3.0 PERFORMANCE

45SDSP-3.0HP

SubDrive Solar 3.0 hp Controller, 45 US gpm 2.0 hp Pump End, 3.0 hp Motor



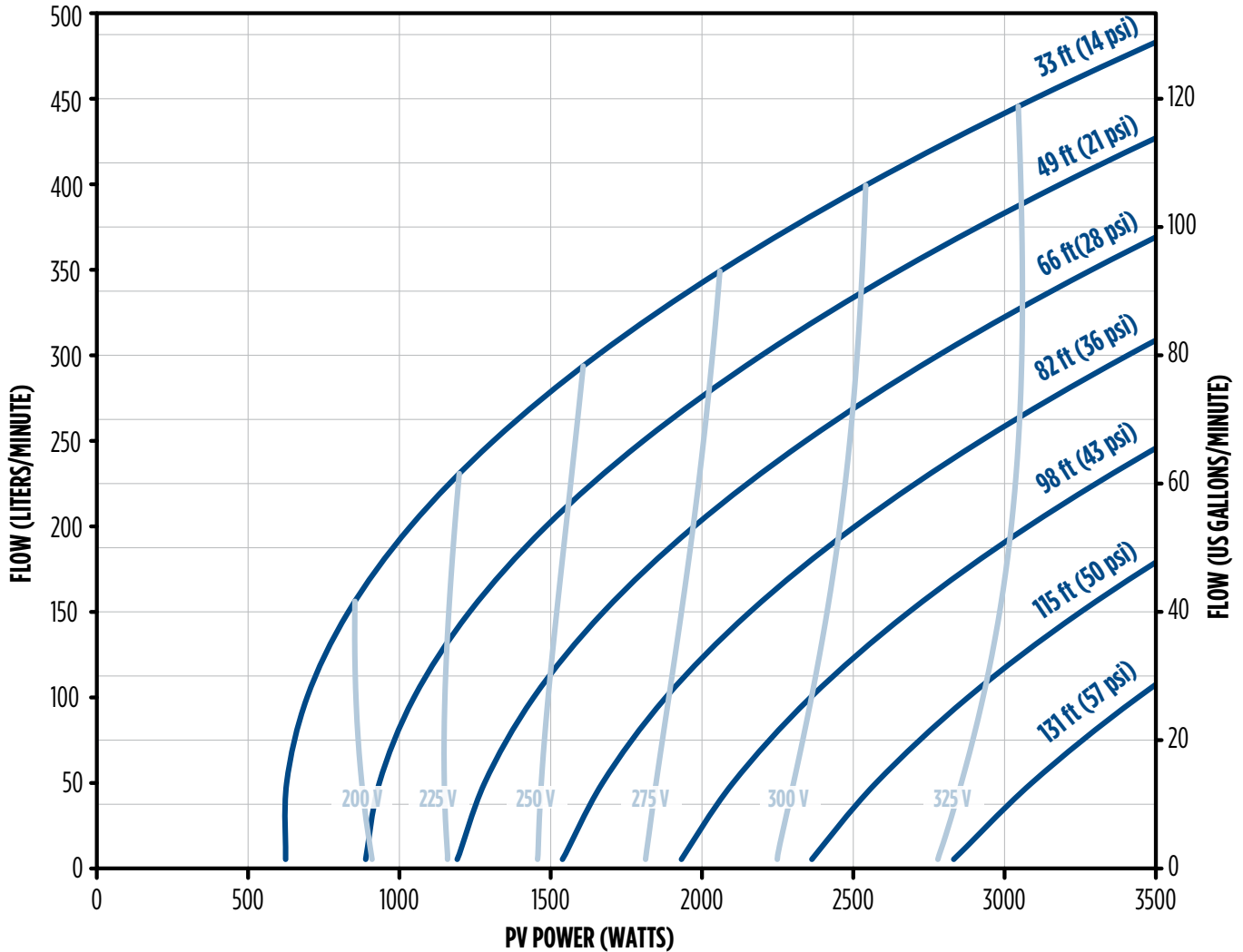
| TDH (ft) | PV Power (Watts) | | | | | | | | | | | |
|----------|------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 750 | 1000 | 1250 | 1500 | 1750 | 2000 | 2250 | 2500 | 2750 | 3000 | 3250 | 3500 |
| | Flow (US GPM) | | | | | | | | | | | |
| 33 | 34 | 43 | 49 | 55 | | | | | | | | |
| 66 | 18 | 29 | 37 | 43 | 49 | 54 | 58 | 63 | 67 | | | |
| 98 | | 15 | 24 | 31 | 38 | 43 | 48 | 52 | 57 | 60 | | |
| 131 | | | 13 | 21 | 27 | 33 | 38 | 42 | 46 | 51 | 55 | |
| 164 | | | | 10 | 17 | 23 | 28 | 33 | 37 | 41 | 45 | |
| 197 | | | | | 8 | 14 | 19 | 24 | 29 | 33 | 37 | |
| 230 | | | | | | 6 | 11 | 16 | 21 | 25 | 29 | |
| 262 | | | | | | | 4 | 9 | 13 | 17 | | |

NOTE: Refer to Drive Specifications table on page 23 for PV source power and voltage-recommended operating ranges

SUBDRIVE SOLARPAK - 3.0 PERFORMANCE

90SDSP-3.0HP

SubDrive Solar 3.0 hp Controller, 90 US gpm 2.0 hp Pump End, 3.0 hp Motor



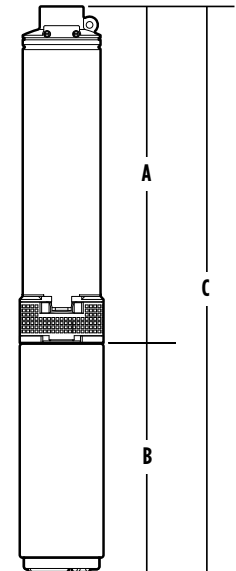
| TDH (ft) | PV Power (Watts) | | | | | | | | | | | |
|----------|------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 750 | 1000 | 1250 | 1500 | 1750 | 2000 | 2250 | 2500 | 2750 | 3000 | 3250 | 3500 |
| | Flow (US GPM) | | | | | | | | | | | |
| 33 | 33 | 51 | 63 | 74 | 82 | 90 | 98 | 104 | 111 | 116 | 122 | 127 |
| 49 | | 22 | 41 | 54 | 64 | 73 | 81 | 88 | 95 | 101 | 107 | 113 |
| 66 | | | 10 | 30 | 43 | 54 | 63 | 71 | 78 | 85 | 92 | 98 |
| 82 | | | | | 19 | 32 | 44 | 53 | 61 | 68 | 75 | 82 |
| 98 | | | | | | 6 | 21 | 32 | 42 | 50 | 58 | 65 |
| 115 | | | | | | | | 9 | 21 | 31 | 40 | 48 |
| 131 | | | | | | | | | | 9 | 20 | 29 |

NOTE: Refer to Drive Specifications table on page 23 for PV source power and voltage-recommended operating ranges

SUBDRIVE SOLARPAK - DIMENSIONS

SOLAR PMA DIMENSIONS

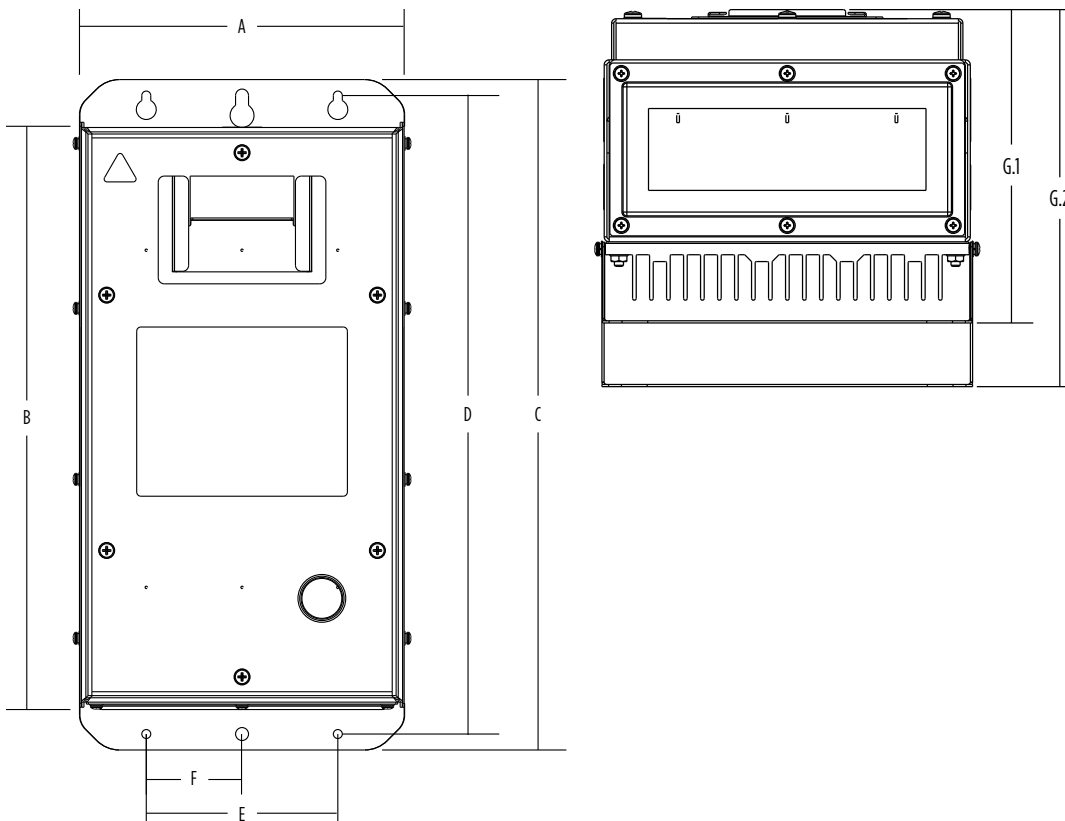
| US GPM | LPM | HP | kW | Stages | A | | B | | C | | Discharge (in) | PE Wt. | | PMA Wt. | |
|--------|-----|------|------|--------|------|-----|------|-----|------|------|----------------|--------|----|---------|----|
| | | | | | in | mm | in | mm | in | mm | | lbs | kg | lbs | kg |
| 5 | 18 | 0.75 | 0.55 | 18 | 22.6 | 574 | 10.6 | 270 | 33.2 | 844 | 11/4 | 12 | 5 | 33 | 15 |
| 7 | 25 | 0.75 | 0.55 | 13 | 18.4 | 467 | 10.6 | 270 | 29.0 | 737 | 11/4 | 11 | 5 | 32 | 15 |
| 10 | 30 | 0.75 | 0.55 | 8 | 14.7 | 373 | 10.6 | 270 | 25.3 | 643 | 11/4 | 8 | 4 | 29 | 13 |
| 15 | 45 | 0.75 | 0.55 | 6 | 13.0 | 329 | 10.6 | 270 | 23.6 | 599 | 11/4 | 7 | 3 | 28 | 13 |
| 5 | 18 | 1.5 | 1.1 | 30 | 34.1 | 866 | 11.7 | 298 | 45.8 | 1164 | 11/4 | 19 | 9 | 48 | 22 |
| 10 | 30 | 1.5 | 1.1 | 18 | 25.3 | 642 | 11.7 | 298 | 37.0 | 940 | 11/4 | 16 | 7 | 45 | 20 |
| 15 | 45 | 1.5 | 1.1 | 15 | 20.5 | 521 | 11.7 | 298 | 32.2 | 819 | 11/4 | 15 | 7 | 44 | 20 |
| 25 | 70 | 1.5 | 1.1 | 10 | 19.2 | 488 | 11.7 | 298 | 30.9 | 786 | 11/4 | 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 | 11/4 | 20 | 9 | 61 | 28 |
| 10 | 30 | 3 | 2.2 | 18 | 25.3 | 645 | 16.1 | 408 | 41.4 | 1053 | 11/4 | 16 | 7 | 57 | 26 |
| 15 | 45 | 3 | 2.2 | 15 | 20.5 | 521 | 16.1 | 408 | 36.6 | 929 | 11/4 | 15 | 7 | 56 | 25 |
| 25 | 70 | 3 | 2.2 | 10 | 19.2 | 488 | 16.1 | 408 | 35.3 | 896 | 11/4 | 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.

SOLAR CONTROLLER DIMENSIONS

| 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 |



SUBDRIVE SOLARPAK - DRIVE SPECIFICATIONS

SOLAR CONTROLLER

| | 0.75 hp (0.55 kW) Model | | 1.5 hp (1.1 kW) Model | | 3.0 hp (2.2 kW) Model | | |
|------------------------------------|--|--------|--|----------|---|----------|-----------|
| Controller Model No. | 5870300553 | | 5870301113 | | 5870301223 | | |
| Output | | | | | | | |
| Output Voltage, Max | 100 V AC, 3-phase | | 200 V AC, 3-phase | | 200 V AC, 3-phase | | |
| Max Amps (RMS) | 8.6 A, each phase | | 6.8 A, each phase | | 12.5 A, each phase | | |
| Output Frequency | 30-60 Hz | | 30-58 Hz | | 30-68 Hz | | |
| Efficiency at Max Power | 96% | | 96% | | 96% | | |
| PV Source | | | | | | | |
| Input Voltage, at mpp | *95 - 330 V DC | | **190 - 330 V DC | | 190* - 330 V DC | | |
| Max Amps Input | 8.7 A DC, continuous | | 7 A DC, continuous | | 12 A DC, continuous | | |
| Power at mpp | Up to 1400 Watts | | Up to 2000 Watts | | Up to 3500 Watts | | |
| Alternate AC Generator | | | | | | | |
| Input Voltage - games | 230 V AC, single-phase | | 230 V AC, single-phase | | 230 V AC, single-phase | | |
| Max Amps (RMS) | 9.6 A | | 16 A | | 25 A | | |
| Power and VA capability | Follow Instruction Manual for proper Generator Sizing Data | | | | | | |
| For Use With | | | | | | | |
| Franklin Electric Motor | 234902---- | | 234504---- | | 234306---- | | |
| SubDrive Solar Pumps (NPT) | US GPM | Stages | Model No. | Stages | Model No. | Stages | Model No. |
| | 5 | 18 | 90020503 | 30 | 90020507 | 30 | - |
| | 7 | 13 | 90020703 | 30 | - | 30 | 90020710 |
| | 10 | 8 | 90021003 | 18 | 90021010 | 18 | 90021010 |
| | 15 | 6 | 90021503 | 15 | 90021510 | 15 | 90021510 |
| | 25 | - | - | 10 | 90022510 | 10 | 90022510 |
| | 35 | - | - | 10 | 90023510 | 10 | 90023510 |
| | 45 | - | - | 7 | 90024510 | 7 | 90024510 |
| 90 | - | - | 5 | 90029010 | 5 | 90029010 | |
| SubDrive Solar Pumps (BSPP) | LPM | Stages | Model No. | Stages | Model No. | Stages | Model No. |
| | 18 | 18 | 90020504 | 30 | 90020508 | 30 | - |
| | 25 | 13 | 90020704 | 30 | - | 30 | 90020711 |
| | 30 | 8 | 90021004 | 18 | 90021011 | 18 | 90021011 |
| | 45 | 6 | 90021504 | 15 | 90021511 | 15 | 90021511 |
| | 70 | - | - | 10 | 90022511 | 10 | 90022511 |
| | 100 | - | - | 10 | 90023511 | 10 | 90023511 |
| | 150 | - | - | 7 | 90024511 | 7 | 90024511 |
| 270 | - | - | 5 | 90029011 | 5 | 90029011 | |
| Controller Size (L x W x D) | | | | | | | |
| in (cm) | 21.00 x 10.19 x 8.61 (53.34 x 25.87 x 21.87) | | 21.00 x 10.19 x 8.61 (53.34 x 25.87 x 21.87) | | 21.00 x 10.19 x 10.36 (53.34 x 25.87 x 26.31) | | |
| Controller Weight | | | | | | | |
| lbs (kg) | 41 (19) | | 41 (19) | | 47 (22) | | |
| Operating Conditions | | | | | | | |
| Temperature Range | 122 °F (104 °F max when using AC generator); -25 °C to 50 °C (40 °C max when using AC generator) | | | | | | |
| Relative Humidity Range | 0 to 100% Condensing | | | | | | |

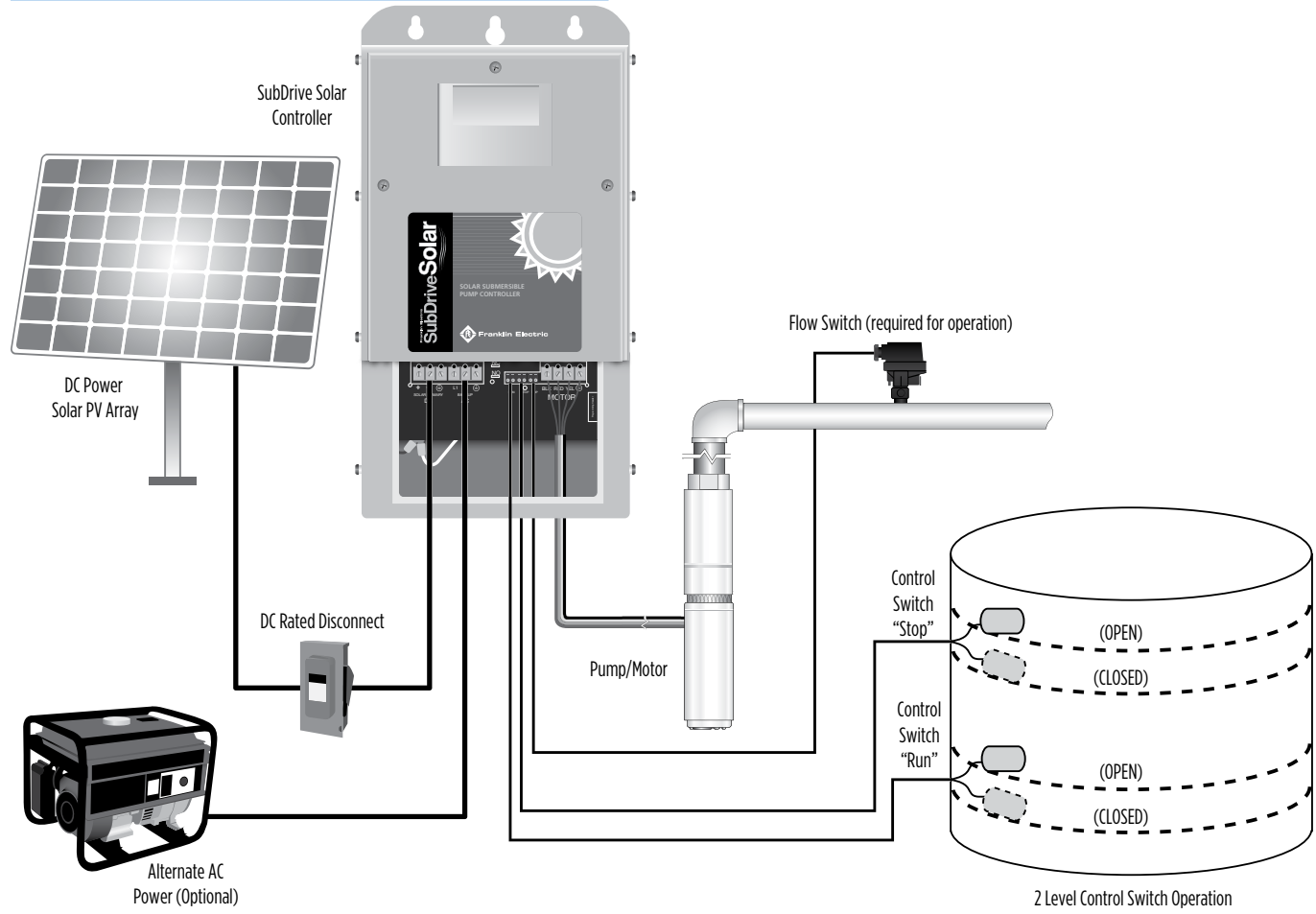
* Drive will attempt to start the pump/motor at 95 V DC, and attempt to continue operation down to 75 V DC.

** Drive will attempt to start the pump/motor at 190 V DC, and attempt to continue operation down to 150 V DC. Absolute maximum open circuit voltage input to the controller = 410 Voc for all controller models.

*** 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)


SUBDRIVE SOLARPAK - QUICK INSTALL GUIDE

SOLARPAK INSTALLATION



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.


SolarPAK

Selection Criteria
Search
Standard US
Language

BASIC OPERATING CONDITIONS

Total Dynamic Head:

Solve To:

Flow:

Thread Type:

LOCATION

Degrees Latitude:

Degrees Longitude:

City/State:

Country:

SOLAR PANEL CHARACTERISTICS

Performance Data Type:

Watts (Wmpp):

Volts (Vmpp):

Volts (Voc):

Use Solar Tracker Array:

Peak Month For Sizing:

WIRE*

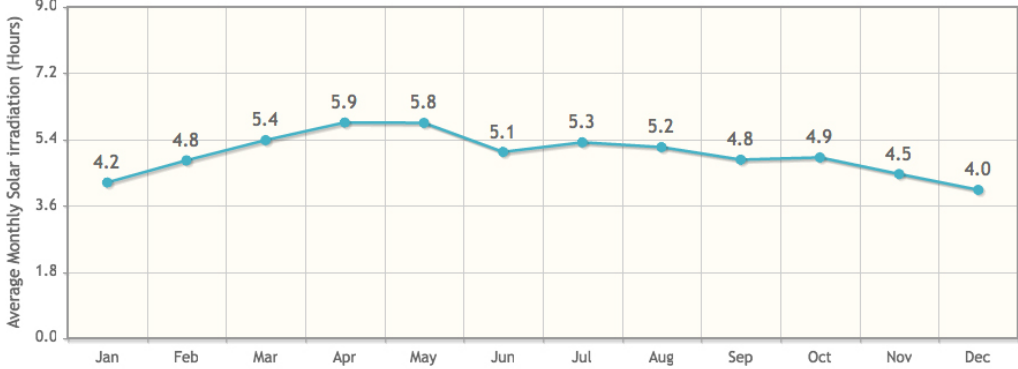
Length:

Material Type:

Insulation Temperature:

*Wire sizing and wire lengths must conform to local, national or government electrical wiring standards and regulations.

Solar Irradiation for Satellite Beach FL: 5 Solar Hours



| Month | Average Monthly Solar Irradiation (Hours) |
|-------|---|
| Jan | 4.2 |
| Feb | 4.8 |
| Mar | 5.4 |
| Apr | 5.9 |
| May | 5.8 |
| Jun | 5.1 |
| Jul | 5.3 |
| Aug | 5.2 |
| Sep | 4.8 |
| Oct | 4.9 |
| Nov | 4.5 |
| Dec | 4.0 |

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

The Franklin Electric SubDrive SolarPAK Selector and other information on our series of solar products can be found at:

franklinwater.com

ASEAN

Franklin Electric SEA Pte. Ltd.
17 Changi Business Park Central 1
06-05, Honeywell Building
Singapore 486 073

Phone: +65.6789.6865
Fax: +65.6789.0155

AUSTRALIA / NEW ZEALAND

Franklin Electric Australia Pty. Ltd.
106 - 110 Micro Circuit
Dandenong South, Victoria 3175
Australia

Phone: +61.3.9799.5000
Fax: +61.3.9799.5050
Hotline: 1.300.372.655

BRAZIL

Franklin Electric Indústria de
Motobombas S.A.
Rua Hans Dieter Schmidt, 1501
Zona Industrial Norte -
CEP 89219-504
Joinville - SC - Brazil

Phone: +55 47 3204-5000

CHILE

Franklin Electric Chile Ltda.
Las Garzas, 930 - Galpón E
Quilicura - Santiago - Chile

Phone: +56 2-896 93 40

CHINA

Franklin Electric Shanghai Co. Ltd.
Unit 1002-03, Shanghai
Central Plaza
No. 227, Huang Pi Bei Road
Shanghai 200003, China

Phone: +86.21.6327.0909
Fax: +86.21.6327.0910

EUROPE/MID-EAST/N. AFRICA

Franklin Electric Europa GmbH
Rudolf-Diesel-Straße 20
D-54516 Wittlich, Germany

Phone: +49.6571.105.0
Fax: +49.6571.105.510

INDIA

Franklin Electric India Pvt. Ltd.
DBS-206, 1st Floor
World Trade Tower
Barakhamba Avenue
New Delhi 110 001, India

Phone: +91.11.4308.4697
Fax: +91.11.2341.4740

JAPAN

Franklin Electric International, Inc.
Aoba Bldg. 4F
1-14-7, Sugamo
Toshima-Ku, Tokyo 170-0002,
Japan

Phone: +81.3.5319.1251
Fax: +81.3.5319.1252

KOREA

Franklin Electric B.V. Korea
Room 502 (BangBaeDong,
BangBae The O Superium#1)
3-4 SeoCho-Daero
SeoCho-Gu, Seoul 137-974
Republic of Korea

Phone: +82.2.3473.3353
Fax: +82.2.3473.3352

LATIN AMERICA

Motores Franklin S.A. de C.V.
Avenida Churubusco #1600
(Bodega #16)
Col. Francisco I. Madero
Monterrey, N.L.
Mexico C.P. 64560

Phone: +52.81.8000.1000
Fax: +52.818.864.8445

SOUTH AFRICA

Franklin Electric South
Africa Pty. Ltd.
P.O. Box 8136, Edengie, 1613
13 Engwena Road, Sebenza,
Edenvale, 1610
South Africa

Phone: +27.11.723.6500
Fax: +27.11.609.2417

UNITED STATES

Franklin Electric Co., Inc.
9255 Coverdale Road
Fort Wayne, Indiana 46809
USA

Phone: +1.260.824.2900
Fax: +1.260.824.2909

