

### Applications

- Agriculture irrigation, Livestock feeding, Domestic water lifting
- Clean water supply from wells or reservoirs
- Off grid solar pumping system

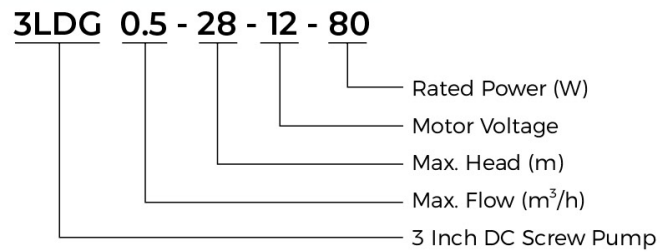
### Pump Features

- With MPPT DC controller
- High-precision AISI304 screw gets higher efficiency
- AISI304 oil chamber and pump barrel
- High efficiency PMSM brushless motor  
(PMSM: Permanent-Magnet Synchronous Motor)

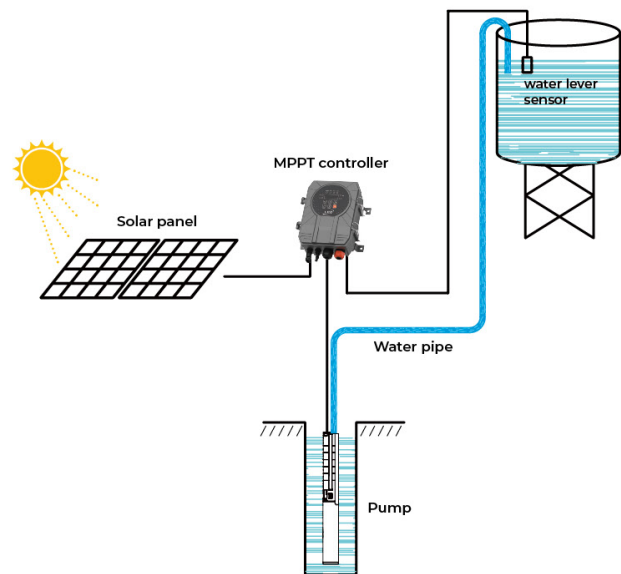
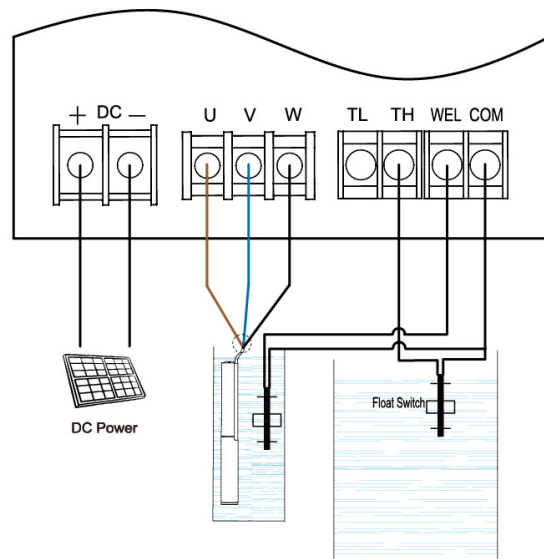
### MPPT DC Controller

- Enclosures class: IP55
- Ambient temperature: -15 ~ 60°C
- LED Displays working conditions & Fault code
- Auto Start & Stop
- Soft start & VFD function

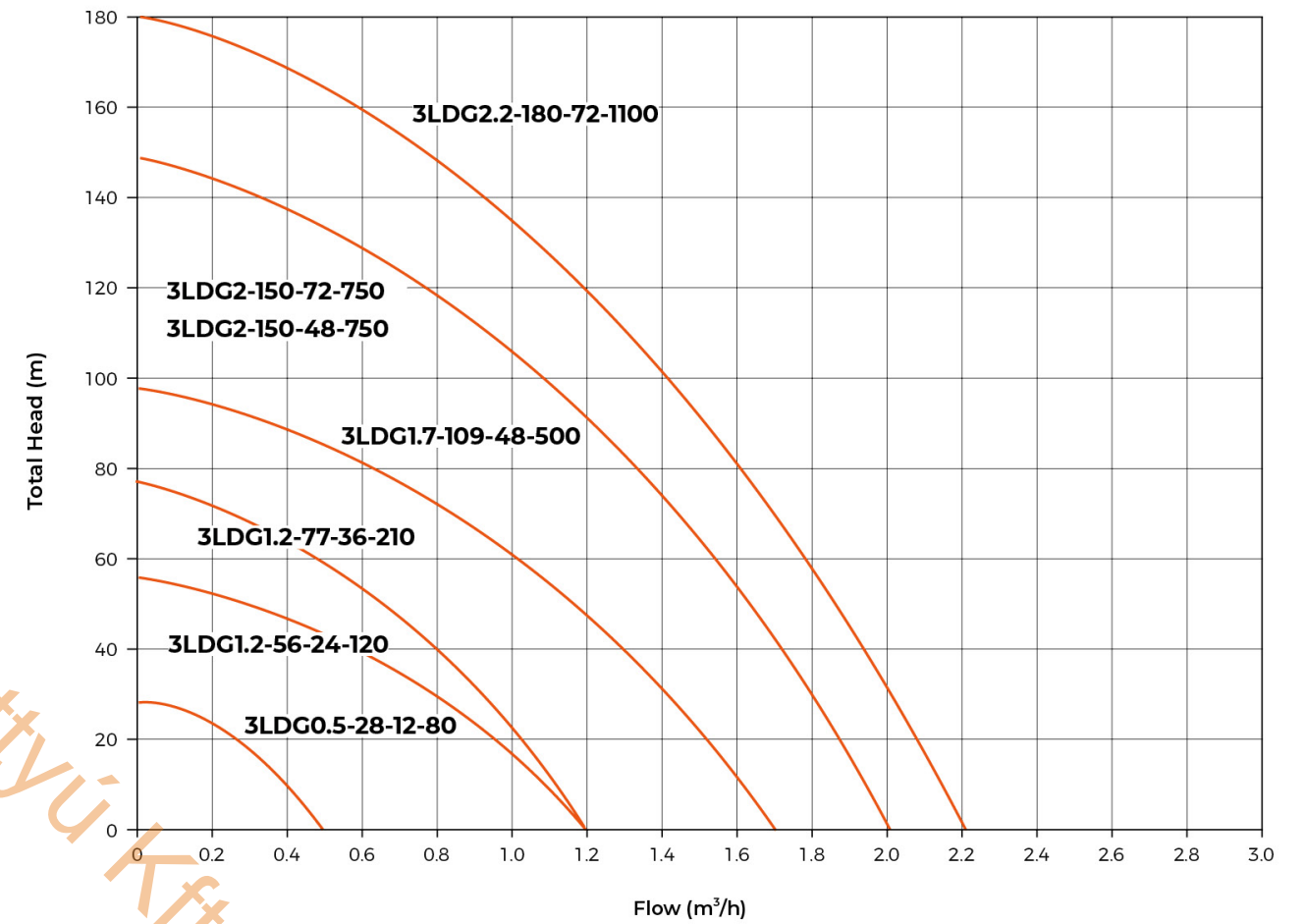
### Identification Codes



### Wiring Diagram



## 3LDG



### Technical Data

| Model               | Power (W) | Rated Voltage (V) | Optimum Input Voltage (V) | Max. Flow (m <sup>3</sup> /h) | Max. Head (m) | Outlet (inch) | Cable (m) | Recommended Solar Panel   |                 |
|---------------------|-----------|-------------------|---------------------------|-------------------------------|---------------|---------------|-----------|---------------------------|-----------------|
|                     |           |                   |                           |                               |               |               |           | Open Circuit Voltage(VOC) | Power           |
| 3LDG0.5-28-12-80    | 80        | 12                | 20-36                     | 0.5                           | 28            | ¾"            | 2         | < 50                      | ≥1.3*Pump Power |
| 3LDG1.2-56-24-120   | 120       | 24                | 30-48                     | 1.2                           | 56            | ¾"            | 2         | < 50                      | ≥1.3*Pump Power |
| 3LDG1.2-77-36-210   | 210       | 36                | 30-48                     | 1.2                           | 77            | ¾"            | 2         | < 50                      | ≥1.3*Pump Power |
| 3LDG1.7-109-48-500  | 500       | 48                | 60-90                     | 1.7                           | 109           | ¾"            | 2         | < 100                     | ≥1.3*Pump Power |
| 3LDG2-150-48-750    | 750       | 48                | 60-90                     | 2                             | 150           | ¾"            | 2         | < 100                     | ≥1.3*Pump Power |
| 3LDG2-150-72-750    | 750       | 72                | 90-120                    | 2                             | 150           | ¾"            | 2         | < 150                     | ≥1.3*Pump Power |
| 3LDG2.2-180-72-1100 | 1100      | 72                | 90-120                    | 2.2                           | 180           | ¾"            | 2         | < 150                     | ≥1.3*Pump Power |



### Applications

- Agriculture irrigation, Livestock feeding, Domestic water lifting
- Clean water supply from wells or reservoirs
- Off grid solar pumping system

### Pump Features

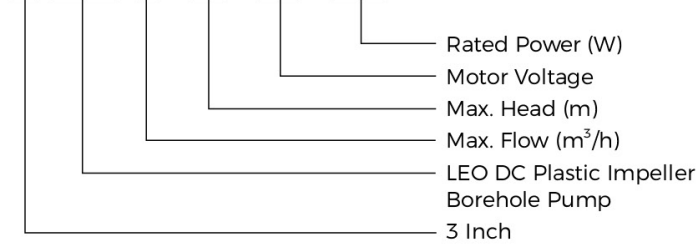
- With MPPT DC controller
- Plastic impeller and diffuser
- AISI304 oil chamber & outlet
- High efficiency PMSM brushless motor  
(PMSM: Permanent-Magnet Synchronous Motor)

### MPPT DC Controller

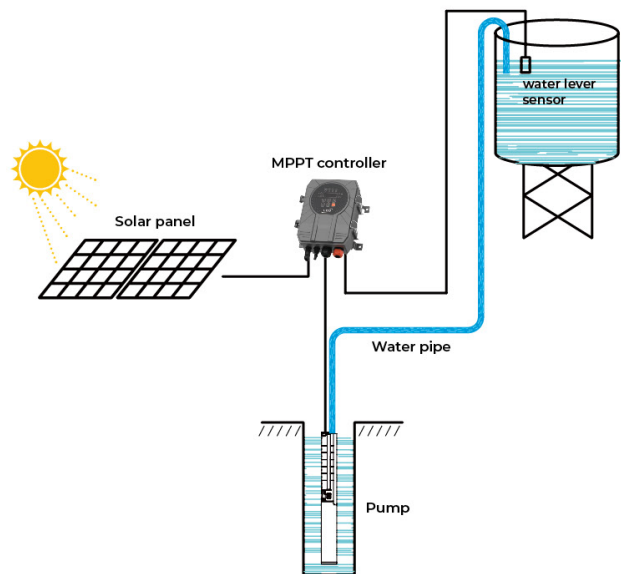
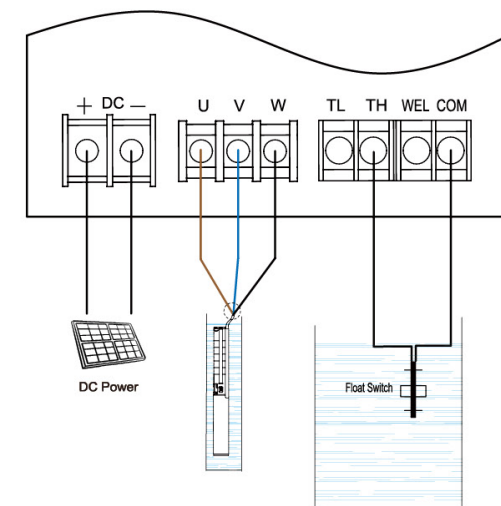
- Enclosures class: IP55
- Ambient temperature: -15 ~ 60°C
- LED Displays working conditions & Fault code
- Auto Start & Stop
- Soft start & VFD function

### Identification Codes

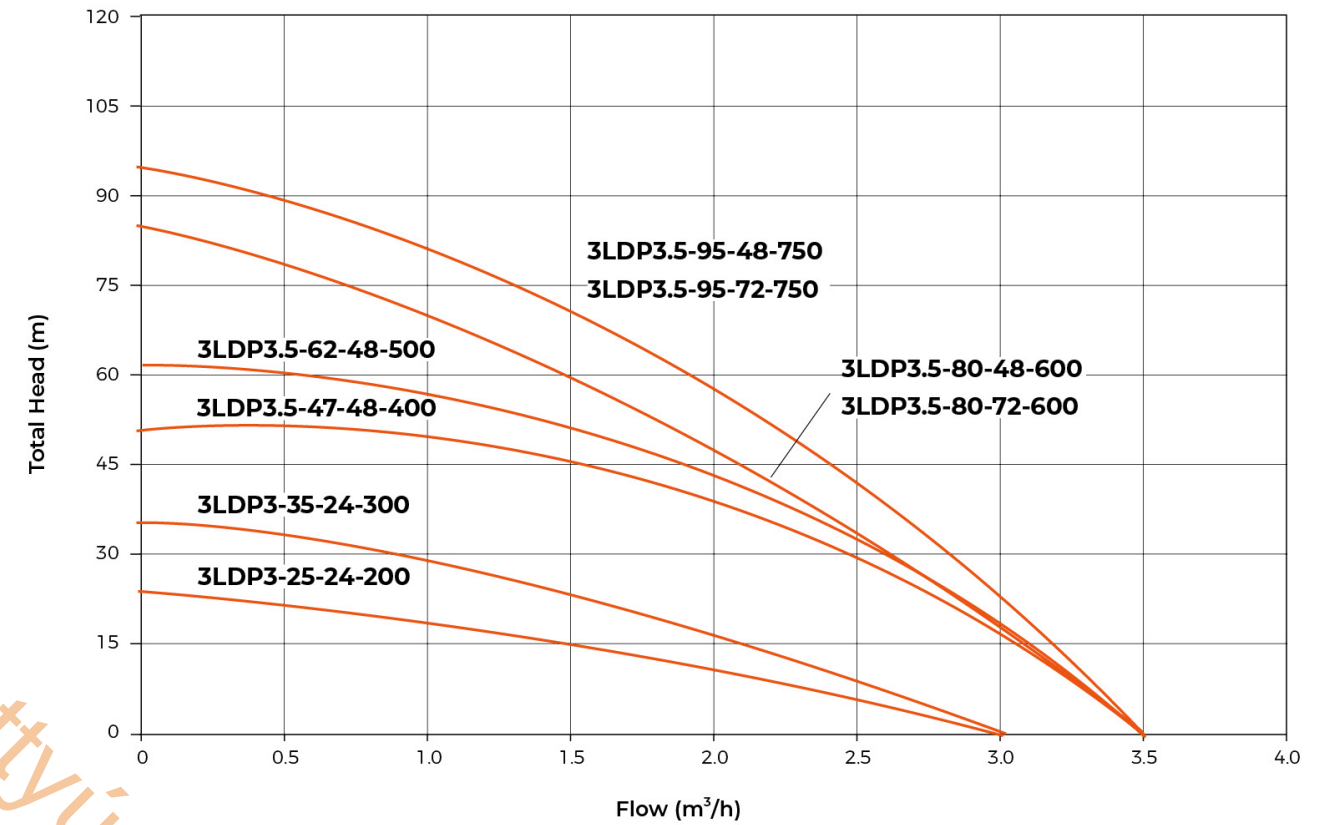
**3 LDP 5 - 45 - 48 - 500**



### Wiring Diagram



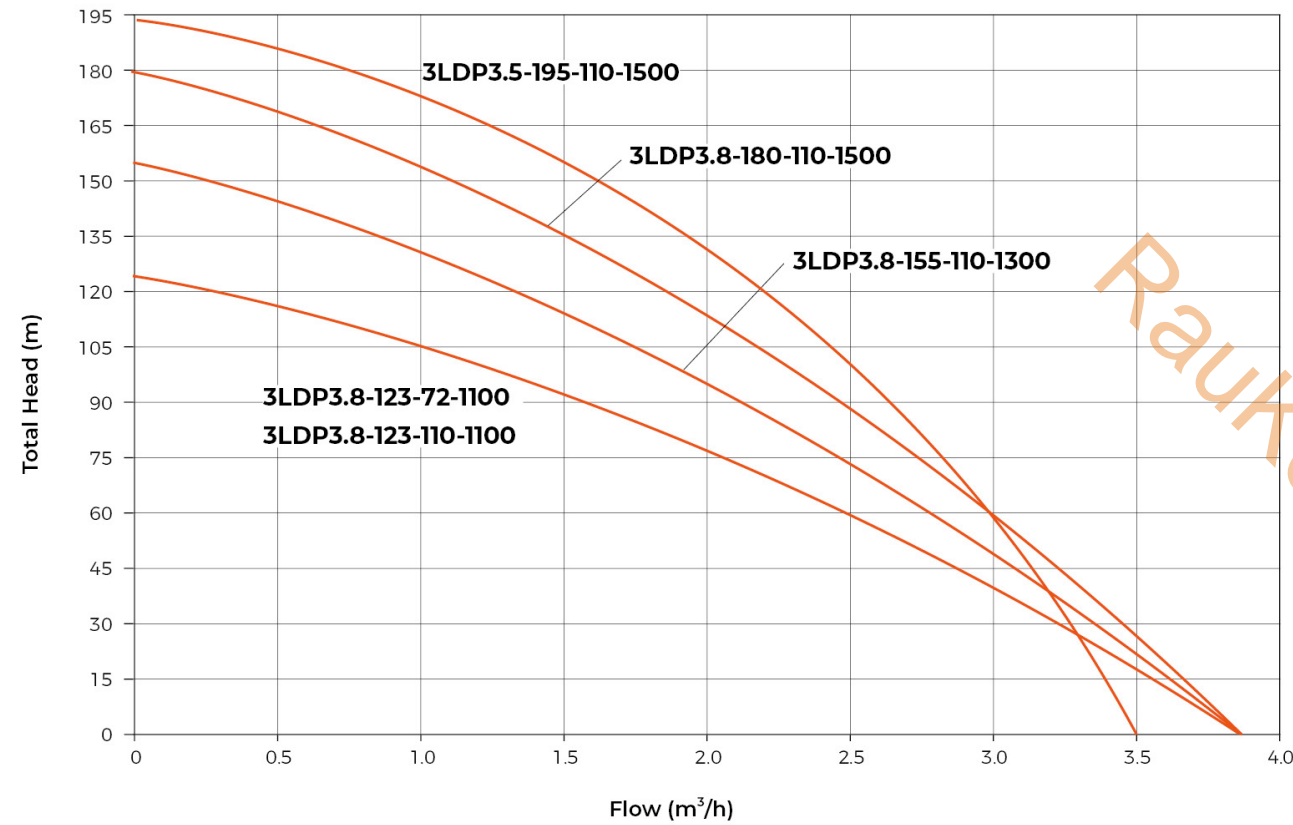
## 3LDP



### Technical Data

| Model             | Power (W) | Rated Voltage (V) | Optimum Input Voltage (V) | Max. Flow (m <sup>3</sup> /h) | Max. Head (m) | Outlet (inch) | Cable (m) | Recommended Solar Panel   |                 |
|-------------------|-----------|-------------------|---------------------------|-------------------------------|---------------|---------------|-----------|---------------------------|-----------------|
|                   |           |                   |                           |                               |               |               |           | Open Circuit Voltage(VOC) | Power           |
| 3LDP3-25-24-200   | 200       | 24                | 30-48                     | 3                             | 25            | 1¼"           | 2         | <50                       | ≥1.3*Pump Power |
| 3LDP3-35-24-300   | 300       | 24                | 30-48                     | 3                             | 35            | 1¼"           | 2         | <50                       | ≥1.3*Pump Power |
| 3LDP3.5-47-48-400 | 400       | 48                | 60-90                     | 3.5                           | 47            | 1¼"           | 2         | <100                      | ≥1.3*Pump Power |
| 3LDP3.5-62-48-500 | 500       | 48                | 60-90                     | 3.5                           | 62            | 1¼"           | 2         | <100                      | ≥1.3*Pump Power |
| 3LDP3.5-80-48-600 | 600       | 48                | 60-90                     | 3.5                           | 80            | 1¼"           | 2         | <100                      | ≥1.3*Pump Power |
| 3LDP3.5-80-72-600 | 600       | 72                | 90-120                    | 3.5                           | 80            | 1¼"           | 2         | <150                      | ≥1.3*Pump Power |
| 3LDP3.5-95-48-750 | 750       | 48                | 60-90                     | 3.5                           | 95            | 1¼"           | 2         | <100                      | ≥1.3*Pump Power |
| 3LDP3.5-95-72-750 | 750       | 72                | 90-120                    | 3.5                           | 95            | 1¼"           | 2         | <150                      | ≥1.3*Pump Power |

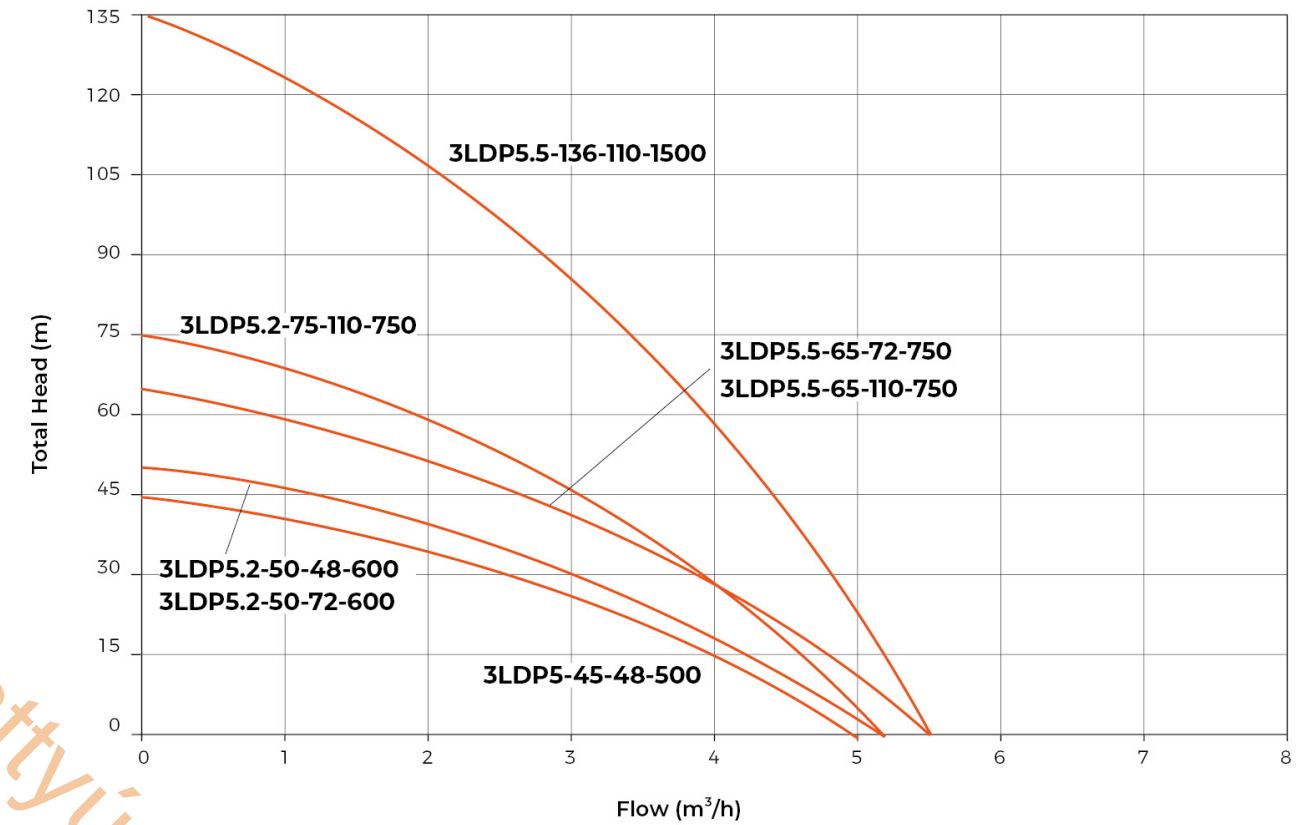
## 3LDP



### Technical Data

| Model                | Power (W) | Rated Voltage (V) | Optimum Input Voltage (V) | Max. Flow (m³/h) | Max. Head (m) | Outlet (inch) | Cable (m) | Recommended Solar Panel   |                 |
|----------------------|-----------|-------------------|---------------------------|------------------|---------------|---------------|-----------|---------------------------|-----------------|
|                      |           |                   |                           |                  |               |               |           | Open Circuit Voltage(VOC) | Power           |
| 3LDP3.8-123-72-1100  | 1100      | 72                | 90-120                    | 3.8              | 123           | 1¼"           | 2         | <150                      | ≥1.3*Pump Power |
| 3LDP3.8-123-110-1100 | 1100      | 110               | 110-150                   | 3.8              | 123           | 1¼"           | 2         | <200                      | ≥1.3*Pump Power |
| 3LDP3.8-155-110-1300 | 1300      | 110               | 110-150                   | 3.8              | 155           | 1¼"           | 2         | <200                      | ≥1.3*Pump Power |
| 3LDP3.8-180-110-1500 | 1500      | 110               | 110-150                   | 3.8              | 180           | 1¼"           | 2         | <200                      | ≥1.3*Pump Power |
| 3LDP3.5-195-110-1500 | 1500      | 110               | 110-150                   | 3.5              | 195           | 1¼"           | 2         | <200                      | ≥1.3*Pump Power |

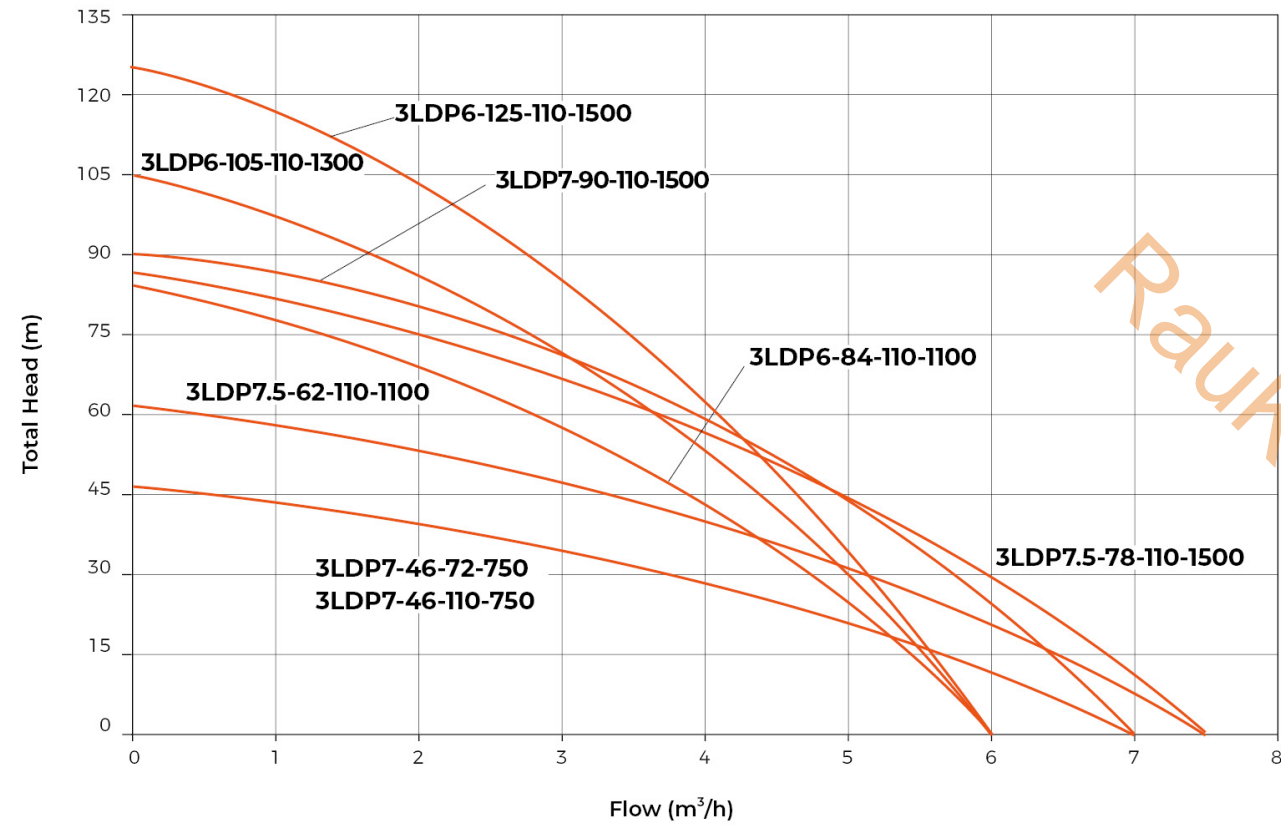
## 3LDP



### Technical Data

| Model                | Power (W) | Rated Voltage (V) | Optimum Input Voltage (V) | Max. Flow (m³/h) | Max. Head (m) | Outlet (inch) | Cable (m) | Recommended Solar Panel   |                 |
|----------------------|-----------|-------------------|---------------------------|------------------|---------------|---------------|-----------|---------------------------|-----------------|
|                      |           |                   |                           |                  |               |               |           | Open Circuit Voltage(VOC) | Power           |
| 3LDP5-45-48-500      | 500       | 48                | 60-90                     | 5                | 45            | 1½"           | 2         | <100                      | ≥1.3*Pump Power |
| 3LDP5.2-50-48-600    | 600       | 48                | 60-90                     | 5.2              | 50            | 1½"           | 2         | <100                      | ≥1.3*Pump Power |
| 3LDP5.2-50-72-600    | 600       | 72                | 90-120                    | 5.2              | 50            | 1½"           | 2         | <150                      | ≥1.3*Pump Power |
| 3LDP5.2-75-110-750   | 750       | 110               | 110-150                   | 5.2              | 75            | 1½"           | 2         | <200                      | ≥1.3*Pump Power |
| 3LDP5.5-65-72-750    | 750       | 72                | 90-120                    | 5.5              | 65            | 1½"           | 2         | <150                      | ≥1.3*Pump Power |
| 3LDP5.5-65-110-750   | 750       | 110               | 110-150                   | 5.5              | 65            | 1½"           | 2         | <200                      | ≥1.3*Pump Power |
| 3LDP5.5-136-110-1500 | 1500      | 110               | 110-150                   | 5.5              | 136           | 1½"           | 2         | <200                      | ≥1.3*Pump Power |

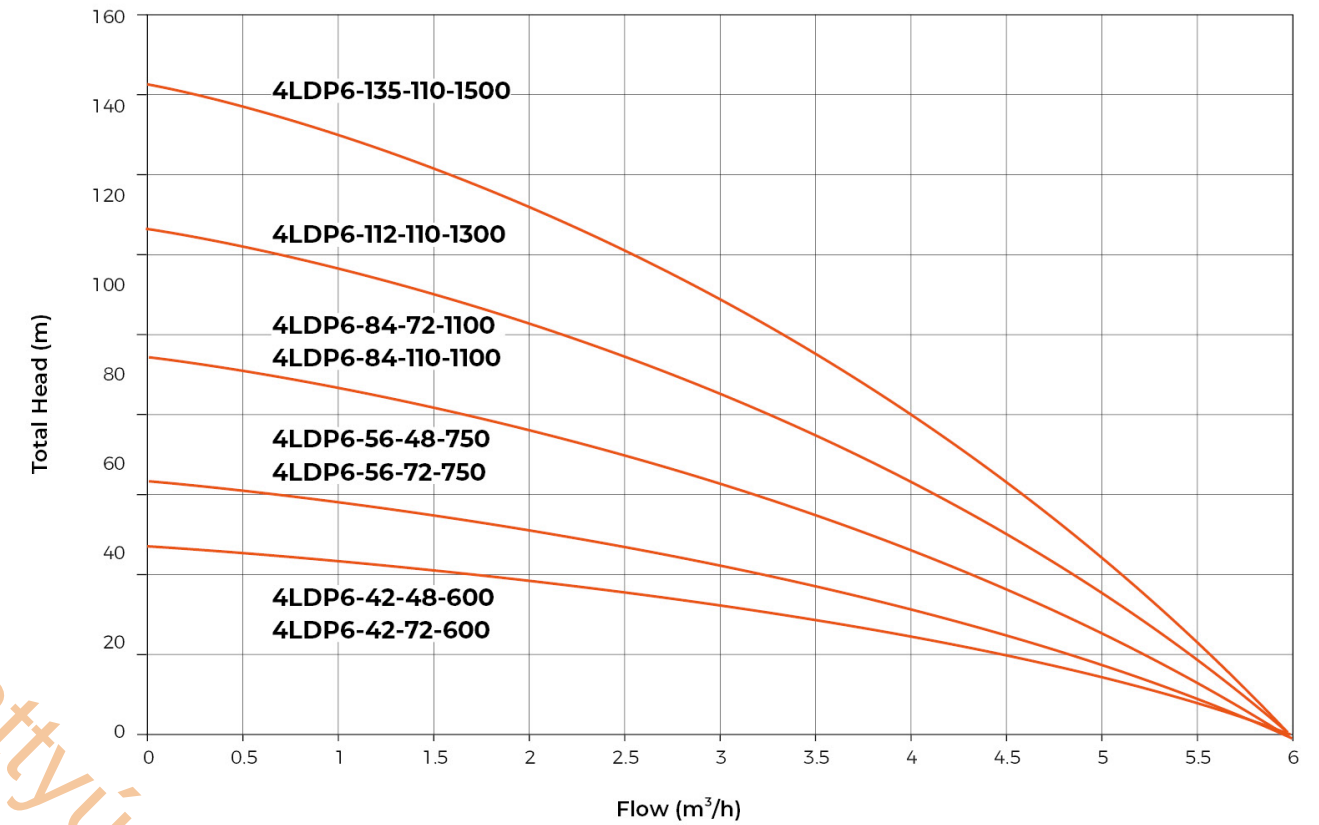
## 3LDP



### Technical Data

| Model               | Power (W) | Rated Voltage (V) | Optimum Input Voltage (V) | Max. Flow (m³/h) | Max. Head (m) | Outlet (inch) | Cable (m) | Recommended Solar Panel   |                 |
|---------------------|-----------|-------------------|---------------------------|------------------|---------------|---------------|-----------|---------------------------|-----------------|
|                     |           |                   |                           |                  |               |               |           | Open Circuit Voltage(VOC) | Power           |
| 3LDP6-84-110-1100   | 1100      | 110               | 110-150                   | 6                | 84            | 1½"           | 2         | <200                      | ≥1.3*Pump Power |
| 3LDP6-105-110-1300  | 1300      | 110               | 110-150                   | 6                | 105           | 1½"           | 2         | <200                      | ≥1.3*Pump Power |
| 3LDP6-125-110-1500  | 1500      | 110               | 110-150                   | 6                | 125           | 1½"           | 2         | <200                      | ≥1.3*Pump Power |
| 3LDP7-46-72-750     | 750       | 72                | 90-120                    | 7                | 46            | 1½"           | 2         | <150                      | ≥1.3*Pump Power |
| 3LDP7-46-110-750    | 750       | 110               | 110-150                   | 7                | 46            | 1½"           | 2         | <200                      | ≥1.3*Pump Power |
| 3LDP7.5-62-110-1100 | 1100      | 110               | 110-150                   | 7.5              | 62            | 1½"           | 2         | <200                      | ≥1.3*Pump Power |
| 3LDP7.5-78-110-1500 | 1500      | 110               | 110-150                   | 7.5              | 78            | 1½"           | 2         | <200                      | ≥1.3*Pump Power |
| 3LDP7-90-110-1500   | 1500      | 110               | 110-150                   | 7                | 90            | 1½"           | 2         | <200                      | ≥1.3*Pump Power |

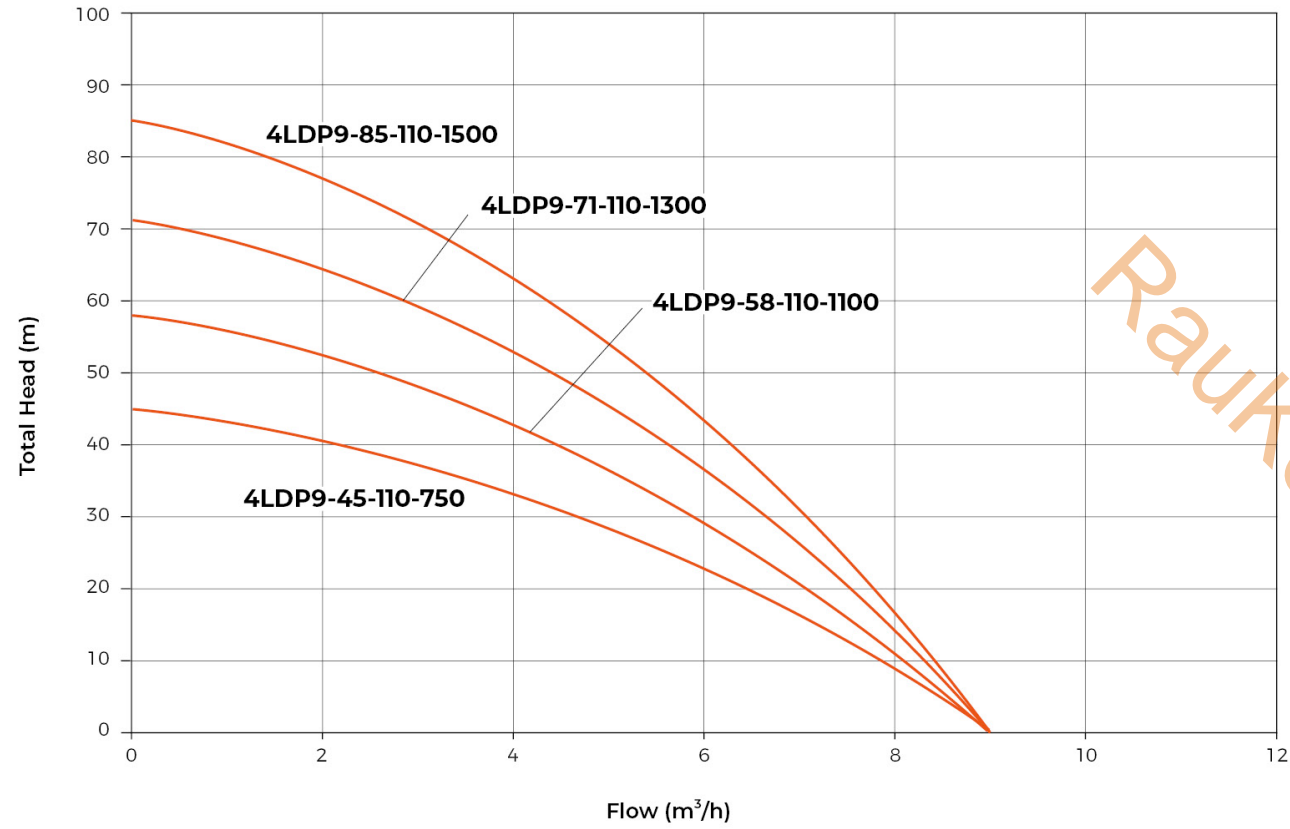
## 4LDP



### Technical Data

| Model              | Power (W) | Rated Voltage (V) | Optimum Input Voltage (V) | Max. Flow (m³/h) | Max. Head (m) | Outlet (inch) | Cable (m) | Recommended Solar Panel   |                 |
|--------------------|-----------|-------------------|---------------------------|------------------|---------------|---------------|-----------|---------------------------|-----------------|
|                    |           |                   |                           |                  |               |               |           | Open Circuit Voltage(VOC) | Power           |
| 4LDP6-42-48-600    | 600       | 48                | 60-90                     | 6                | 42            | 1¼"           | 2         | < 100                     | ≥1.3*Pump Power |
| 4LDP6-42-72-600    | 600       | 72                | 90-120                    | 6                | 42            | 1¼"           | 2         | < 150                     | ≥1.3*Pump Power |
| 4LDP6-56-48-750    | 750       | 48                | 60-90                     | 6                | 56            | 1¼"           | 2         | < 100                     | ≥1.3*Pump Power |
| 4LDP6-56-72-750    | 750       | 72                | 90-120                    | 6                | 56            | 1¼"           | 2         | < 150                     | ≥1.3*Pump Power |
| 4LDP6-84-72-1100   | 1100      | 72                | 90-120                    | 6                | 84            | 1¼"           | 2         | < 150                     | ≥1.3*Pump Power |
| 4LDP6-84-110-1100  | 1100      | 110               | 110-150                   | 6                | 84            | 1¼"           | 2         | <200                      | ≥1.3*Pump Power |
| 4LDP6-112-110-1300 | 1300      | 110               | 110-150                   | 6                | 112           | 1¼"           | 2         | <200                      | ≥1.3*Pump Power |
| 4LDP6-135-110-1500 | 1500      | 110               | 110-150                   | 6                | 135           | 1¼"           | 2         | <200                      | ≥1.3*Pump Power |

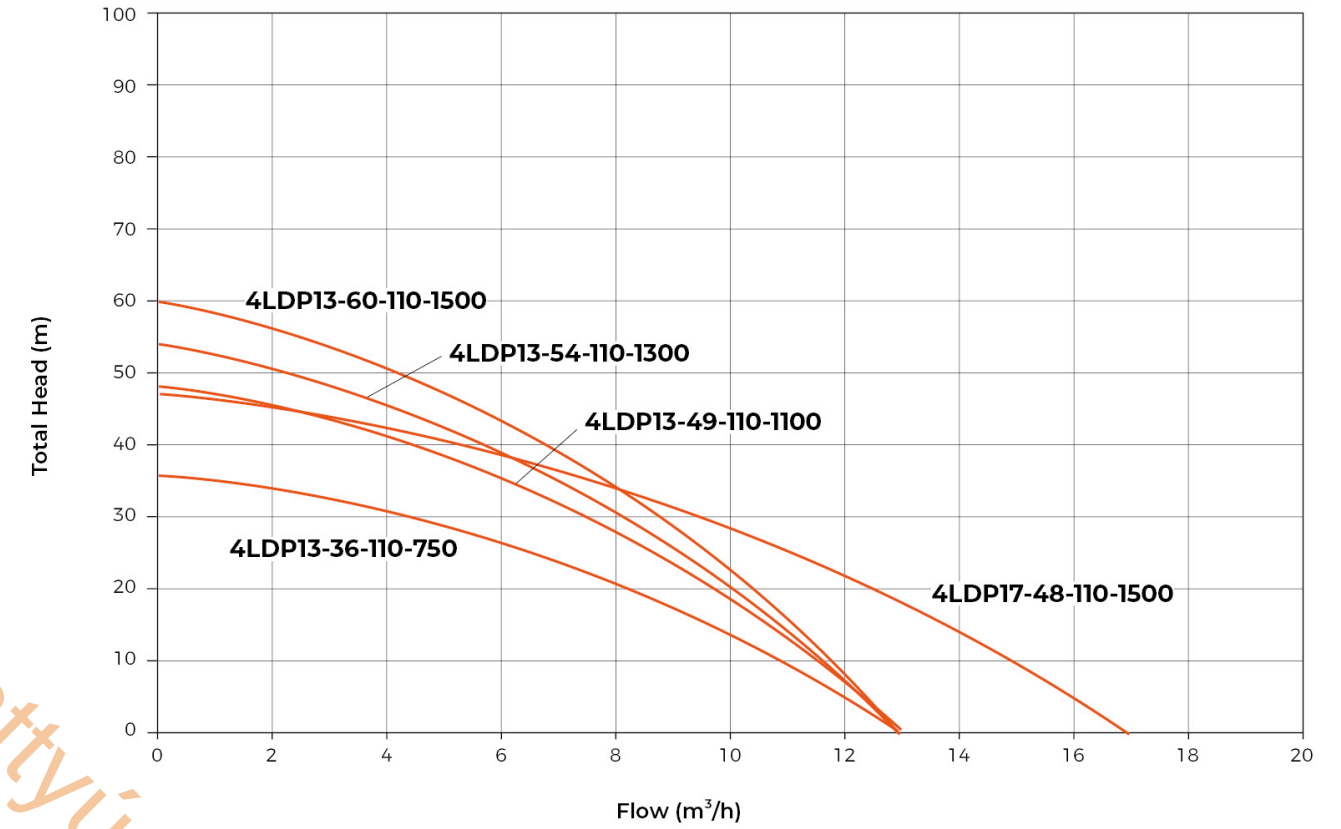
## 4LDP



### Technical Data

| Model             | Power (W) | Rated Voltage (V) | Optimum Input Voltage (V) | Max. Flow (m³/h) | Max. Head (m) | Outlet (inch) | Cable (m) | Recommended Solar Panel   |                 |
|-------------------|-----------|-------------------|---------------------------|------------------|---------------|---------------|-----------|---------------------------|-----------------|
|                   |           |                   |                           |                  |               |               |           | Open Circuit Voltage(VOC) | Power           |
| 4LDP9-45-110-750  | 750       | 110               | 110-150                   | 9                | 45            | 2"            | 2         | <200                      | ≥1.3*Pump Power |
| 4LDP9-58-110-1100 | 1100      | 110               | 110-150                   | 9                | 58            | 2"            | 2         | <200                      | ≥1.3*Pump Power |
| 4LDP9-71-110-1300 | 1300      | 110               | 110-150                   | 9                | 71            | 2"            | 2         | <200                      | ≥1.3*Pump Power |
| 4LDP9-85-110-1500 | 1500      | 110               | 110-150                   | 9                | 85            | 2"            | 2         | <200                      | ≥1.3*Pump Power |

## 4LDP



### Technical Data

| Model              | Power (W) | Rated Voltage (V) | Optimum Input Voltage (V) | Max. Flow (m³/h) | Max. Head (m) | Outlet (inch) | Cable (m) | Recommended Solar Panel   |                 |
|--------------------|-----------|-------------------|---------------------------|------------------|---------------|---------------|-----------|---------------------------|-----------------|
|                    |           |                   |                           |                  |               |               |           | Open Circuit Voltage(VOC) | Power           |
| 4LDP13-36-110-750  | 750       | 110               | 110-150                   | 13               | 36            | 2"            | 2         | <200                      | ≥1.3*Pump Power |
| 4LDP13-49-110-1100 | 1100      | 110               | 110-150                   | 13               | 49            | 2"            | 2         | <200                      | ≥1.3*Pump Power |
| 4LDP13-54-110-1300 | 1300      | 110               | 110-150                   | 13               | 54            | 2"            | 2         | <200                      | ≥1.3*Pump Power |
| 4LDP13-60-110-1500 | 1500      | 110               | 110-150                   | 13               | 60            | 2"            | 2         | <200                      | ≥1.3*Pump Power |
| 4LDP17-48-110-1500 | 1500      | 110               | 110-150                   | 17               | 48            | 2"            | 2         | <200                      | ≥1.3*Pump Power |



### Applications

- Agriculture irrigation, Livestock feeding, Domestic water lifting
- Clean water supply from wells or reservoirs
- Off grid solar pumping system

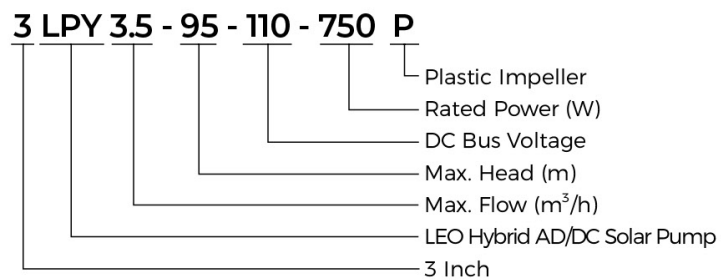
### Pump Features

- With MPPT AC/DC Controller
- Plastic Impeller and diffuser
- AISI304 oil chamber & outlet
- High efficiency PMSM brushless motor (PMSM: Permanent-Magnet Synchronous Motor)

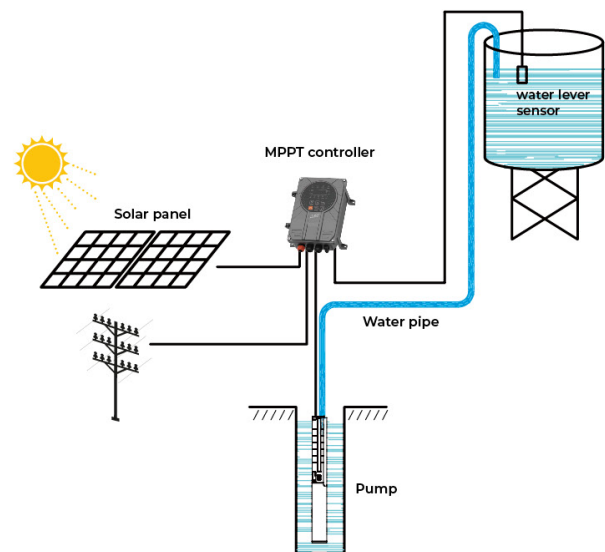
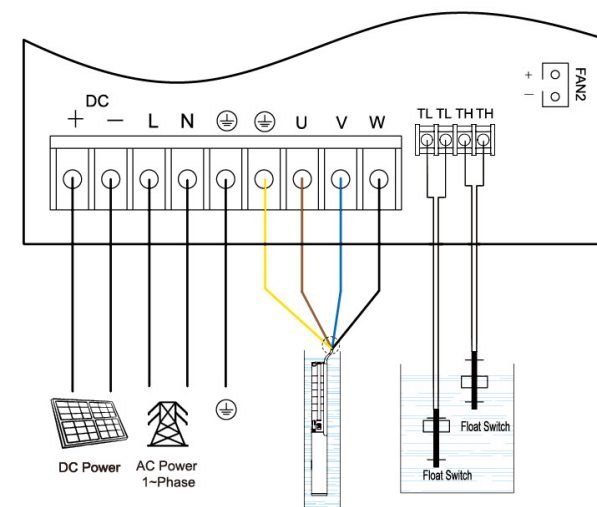
### MPPT AC/DC Controller

- Can be used for both AC and DC power supply
- Enclosures class: IP55
- Ambient temperature: -15 ~ 60°C
- LED Displays working conditions & Fault code
- Auto Start & Stop
- Soft start & VFD function

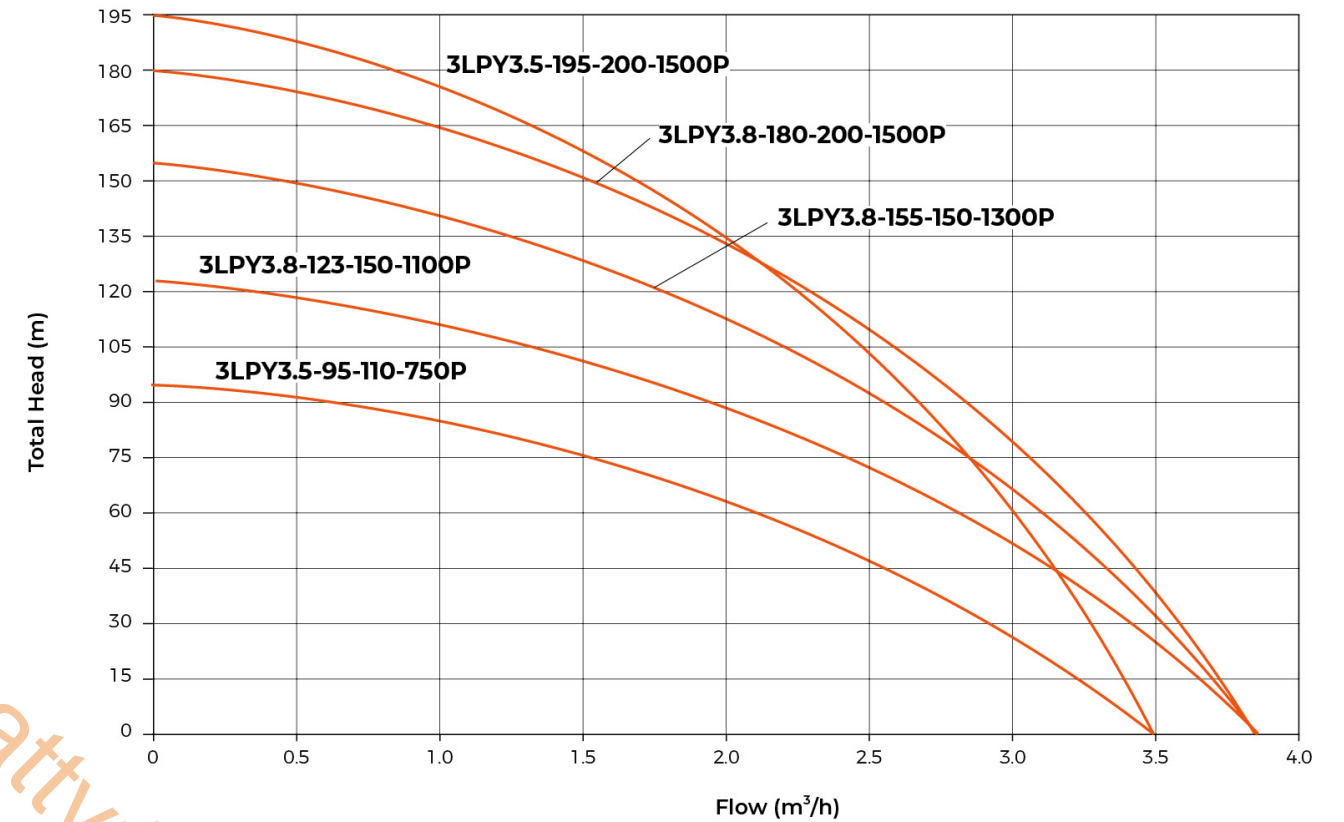
### Identification Codes



### Wiring Diagram



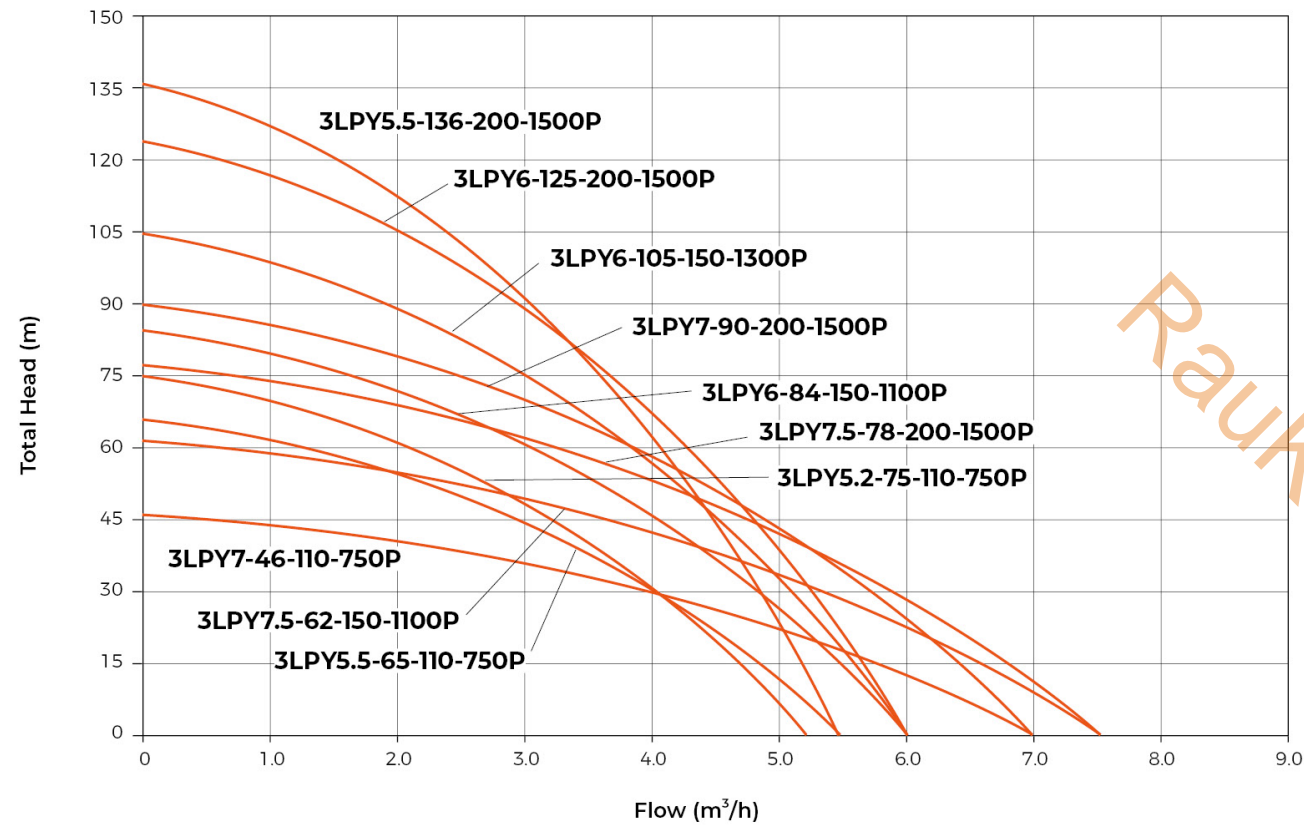
## 3LPY



### Technical Data

| Model                 | Power (W) | AC Voltage (V) | DC Voltage (V) | Max. Flow (m <sup>3</sup> /h) | Max. Head (m) | Outlet (inch) | Cable (m) | Recommended Solar Panel   |                 |
|-----------------------|-----------|----------------|----------------|-------------------------------|---------------|---------------|-----------|---------------------------|-----------------|
|                       |           |                |                |                               |               |               |           | Open Circuit Voltage(VOC) | Power           |
| 3LPY3.5-95-110-750P   | 750       | 80-280         | 90-200         | 3.5                           | 95            | 1¼"           | 2         | <430                      | ≥1.3*Pump Power |
| 3LPY3.8-123-150-1100P | 1100      | 80-280         | 90-300         | 3.8                           | 123           | 1¼"           | 2         | <430                      | ≥1.3*Pump Power |
| 3LPY3.8-155-150-1300P | 1300      | 80-280         | 90-300         | 3.8                           | 155           | 1¼"           | 2         | <430                      | ≥1.3*Pump Power |
| 3LPY3.8-180-200-1500P | 1500      | 80-280         | 90-380         | 3.8                           | 180           | 1¼"           | 2         | <430                      | ≥1.3*Pump Power |
| 3LPY3.5-195-200-1500P | 1500      | 80-280         | 90-380         | 3.5                           | 195           | 1¼"           | 2         | <430                      | ≥1.3*Pump Power |

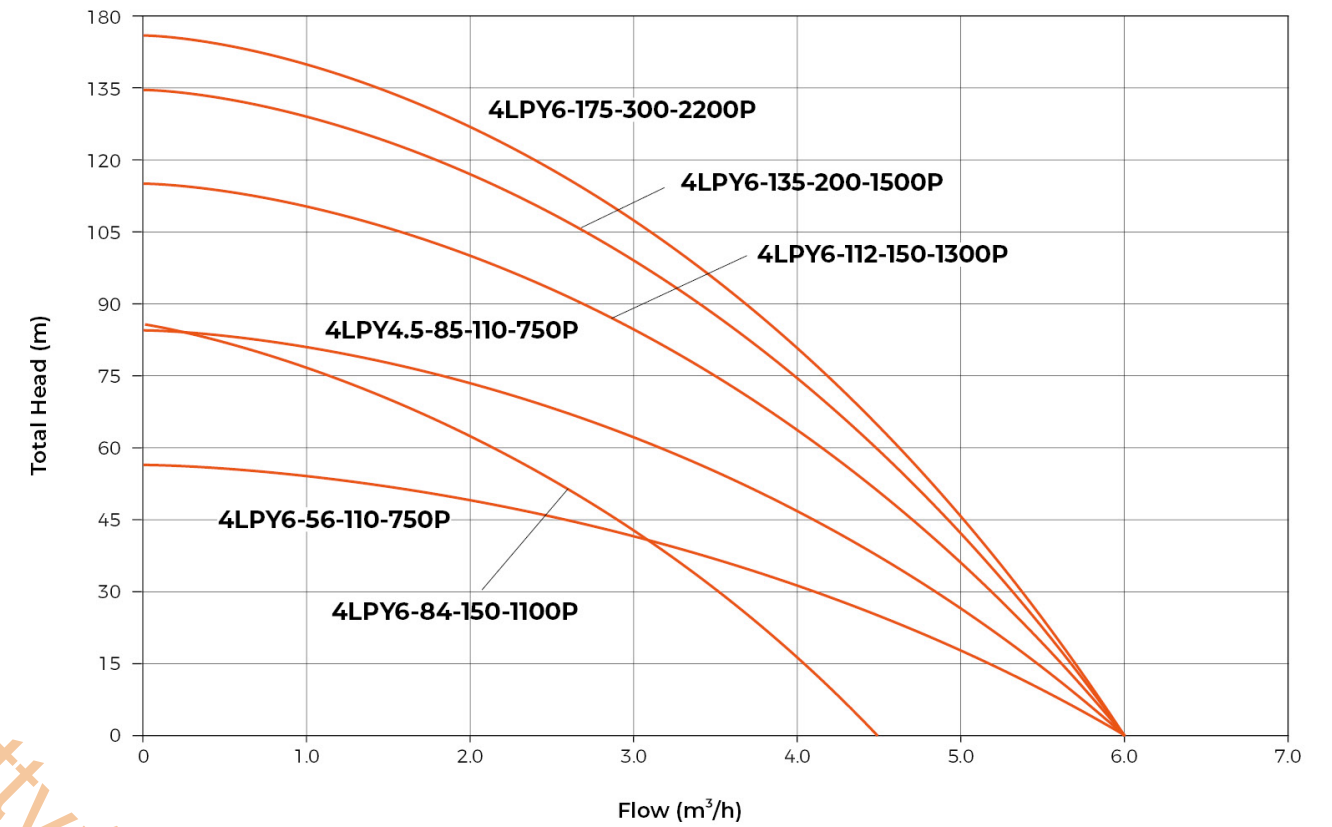
## 3LPY



### Technical Data

| Model                 | Power (W) | AC Voltage (V) | DC Voltage (V) | Max. Flow (m³/h) | Max. Head (m) | Outlet (inch) | Cable (m) | Recommended Solar Panel   |                 |
|-----------------------|-----------|----------------|----------------|------------------|---------------|---------------|-----------|---------------------------|-----------------|
|                       |           |                |                |                  |               |               |           | Open Circuit Voltage(VOC) | Power           |
| 3LPY5.2-75-110-750P   | 750       | 80-280         | 90-200         | 5.2              | 75            | 1½"           | 2         | <430                      | ≥1.3*Pump Power |
| 3LPY5.5-65-110-750P   | 750       | 80-280         | 90-200         | 5.5              | 65            | 1½"           | 2         | <430                      | ≥1.3*Pump Power |
| 3LPY6-84-150-1100P    | 1100      | 80-280         | 90-300         | 6                | 84            | 1½"           | 2         | <430                      | ≥1.3*Pump Power |
| 3LPY6-105-150-1300P   | 1300      | 80-280         | 90-300         | 6                | 105           | 1½"           | 2         | <430                      | ≥1.3*Pump Power |
| 3LPY6-125-200-1500P   | 1500      | 80-280         | 90-380         | 6                | 125           | 1½"           | 2         | <430                      | ≥1.3*Pump Power |
| 3LPY5.5-136-200-1500P | 1500      | 80-280         | 90-380         | 5.5              | 136           | 1½"           | 2         | <430                      | ≥1.3*Pump Power |
| 3LPY7-46-110-750P     | 750       | 80-280         | 90-200         | 7                | 46            | 1½"           | 2         | <430                      | ≥1.3*Pump Power |
| 3LPY7.5-62-150-1100P  | 1100      | 80-280         | 90-300         | 7.5              | 62            | 1½"           | 2         | <430                      | ≥1.3*Pump Power |
| 3LPY7.5-78-200-1500P  | 1500      | 80-280         | 90-380         | 7.5              | 78            | 1½"           | 2         | <430                      | ≥1.3*Pump Power |
| 3LPY7-90-200-1500P    | 1500      | 80-280         | 90-380         | 7                | 90            | 1½"           | 2         | <430                      | ≥1.3*Pump Power |

## 4LPY



### Technical Data

| Model               | Power (W) | AC Voltage (V) | DC Voltage (V) | Max. Flow (m³/h) | Max. Head (m) | Outlet (inch) | Cable (m) | Recommended Solar Panel   |                 |
|---------------------|-----------|----------------|----------------|------------------|---------------|---------------|-----------|---------------------------|-----------------|
|                     |           |                |                |                  |               |               |           | Open Circuit Voltage(VOC) | Power           |
| 4LPY4.5-85-110-750P | 750       | 80-280         | 90-200         | 4.5              | 85            | 1¼"           | 2         | <430                      | ≥1.3*Pump Power |
| 4LPY6-56-110-750P   | 750       | 80-280         | 90-200         | 6                | 56            | 1¼"           | 2         | <430                      | ≥1.3*Pump Power |
| 4LPY6-84-150-1100P  | 1100      | 80-280         | 90-300         | 6                | 84            | 1¼"           | 2         | <430                      | ≥1.3*Pump Power |
| 4LPY6-112-150-1300P | 1300      | 80-280         | 90-300         | 6                | 112           | 1¼"           | 2         | <430                      | ≥1.3*Pump Power |
| 4LPY6-135-200-1500P | 1500      | 80-280         | 90-380         | 6                | 135           | 1¼"           | 2         | <430                      | ≥1.3*Pump Power |
| 4LPY6-175-300-2200P | 2200      | 80-280         | 120-430        | 6                | 175           | 1¼"           | 2         | <430                      | ≥1.3*Pump Power |



### Applications

- Deliver clean water or other liquids similar to water in physical and chemical properties
- Farm irrigation & Domestic water lifting in no electricity area
- Off grid solar irrigation system

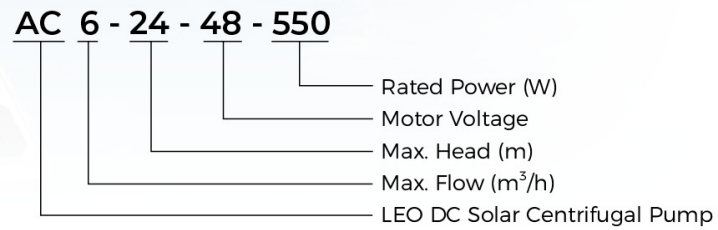
### Pump Features

- 100% Copper winding
- High efficiency PMSM brushless motor (PMSM: Permanent-Magnet Synchronous Motor)
- Cast iron pump body with e-coating treatment
- Brass impeller

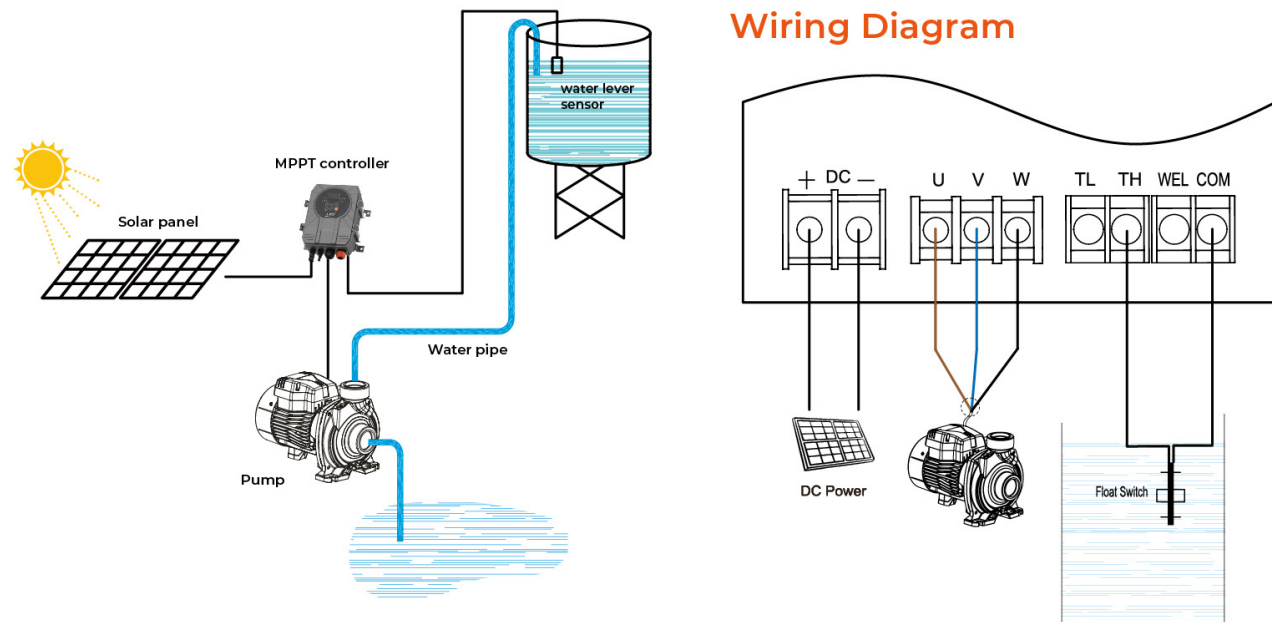
### MPPT DC Controller

- Enclosures class: IP55
- Ambient temperature: -15 ~ +60°C
- LED Displays working conditions & Fault code
- Auto Start & Stop (with float switch)
- Soft start & VFD function

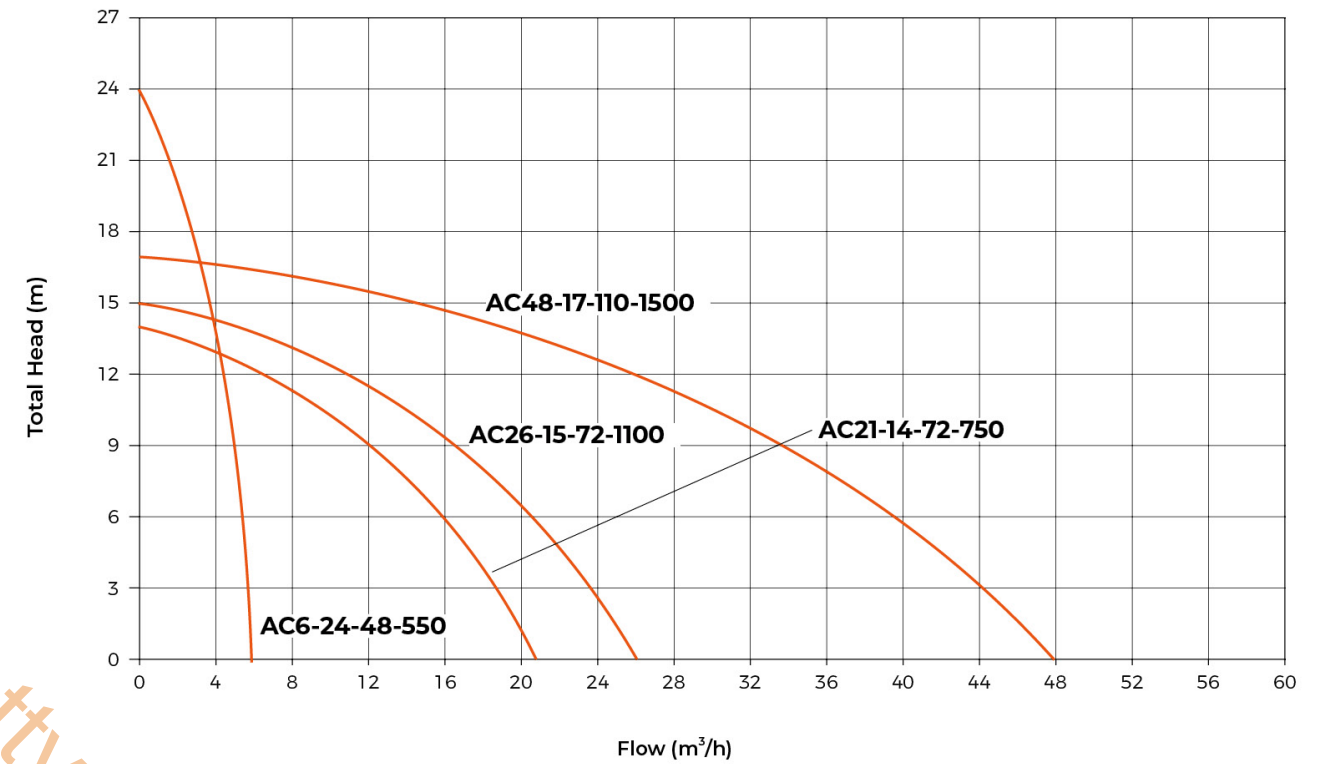
### Identification Codes



### Wiring Diagram



### Hydraulic Performance Curves



### Technical Data

| Model            | Power (W) | Rated Voltage (V) | Optimum Input Voltage (V) | Max. Flow (m <sup>3</sup> /h) | Max. Head (m) | Inlet/Outlet (inch) | Cable (m) | Recommended Solar Panel   |                 |
|------------------|-----------|-------------------|---------------------------|-------------------------------|---------------|---------------------|-----------|---------------------------|-----------------|
|                  |           |                   |                           |                               |               |                     |           | Open Circuit Voltage(VOC) | Power           |
| AC6-24-48-550    | 550       | 48                | 60-90                     | 6                             | 24            | 1"x1"               | 2         | < 100                     | ≥1.3*Pump Power |
| AC21-14-72-750   | 750       | 72                | 90-120                    | 21                            | 14            | 2"x2"               | 2         | < 150                     | ≥1.3*Pump Power |
| AC26-15-72-1100  | 1100      | 72                | 90-120                    | 26                            | 15            | 2"x2"               | 2         | < 150                     | ≥1.3*Pump Power |
| AC48-17-110-1500 | 1500      | 110               | 110-150                   | 45                            | 17            | 3"x3"               | 2         | < 200                     | ≥1.3*Pump Power |