

SOLAR PUMP



ZSCO-ADHY
AC/DC HYBRID

2023

PRODUCT CATALOG

CE © ISO9001



APPLICATION



GARDENING



IRRIGATION



WASHING



SHALLOW
WELL



30-
140m
HIGHLIFT



HOME SWIMMING
POOL

For water supply from wells or reservoirs

For domestic use, for civil and industrial applications

For garden use and irrigation

ZSCO-ADHY AC/DC

SWITCHING MPPT CONTROLLER SOLAR PUMP SERIES

www.zripump.com



Large Flow
Gao Yangcheng



All-copper motor coil



Low noise



High efficiency
and energy saving



Super durability



ZSCO - ADHY AC/DC

SWITCHING MPPT CONTROLLER



Z3PC-A/DHY

AC/DC Hybrid Solar Pump Series

**01****Outlet**1.25 / 1.5 inch,
Stainless Steel AISI 304SS/316SS**02****Inlet**Stainless Steel
AISI 304SS/316SS**03****Bottom support**Stainless Steel
AISI 304SS/316SS

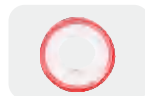
ADVANCED TECHNOLOGY

Running Speed
ControlShort-Circuit
Protection

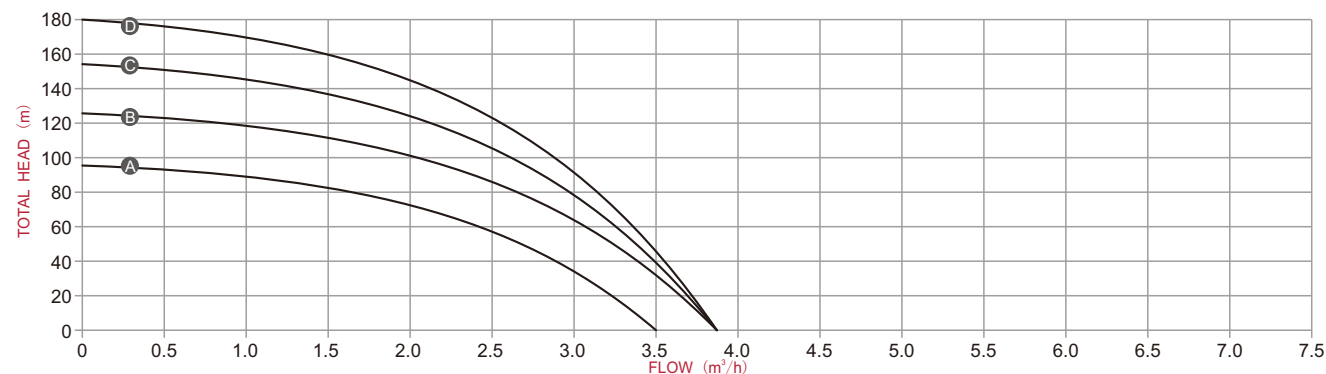
MPPT

Dry Running
ProtectionSoft Starting
ProtectionReverse Voltage
ProtectionLow-voltage /
Over-voltage
ProtectionOver Current
Protection

FREE SPARE PARTS



PERFORMANCE CURVES AND DATA



No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	Z3PC3.5-95-110-750-A/D	80-280V AC	80-400V DC	750W	3.5m³/h	95m	1.25"	2m	<420V	≥1.3*PUMP POWER
B	Z3PC3.8-123-150-1100-A/D	80-280V AC	80-400V DC	1100W	3.8m³/h	123m	1.25"	2m	<420V	≥1.3*PUMP POWER
C	Z3PC3.8-155-150-1300-A/D	80-280V AC	80-400V DC	1300W	3.8m³/h	155m	1.25"	2m	<420V	≥1.3*PUMP POWER
D	Z3PC3.8-180-200-1500-A/D	80-280V AC	80-400V DC	1500W	3.8m³/h	180m	1.25"	2m	<420V	≥1.3*PUMP POWER

Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity

SOLAR
ZAI

Z3PC-A/DHY

AC/DC Hybrid Solar Pump Series

ADVANCED TECHNOLOGY



01

Outlet

1.25 / 1.5 inch,
Stainless Steel AISI 304SS/316SS

02

Inlet

Stainless Steel
AISI 304SS/316SS



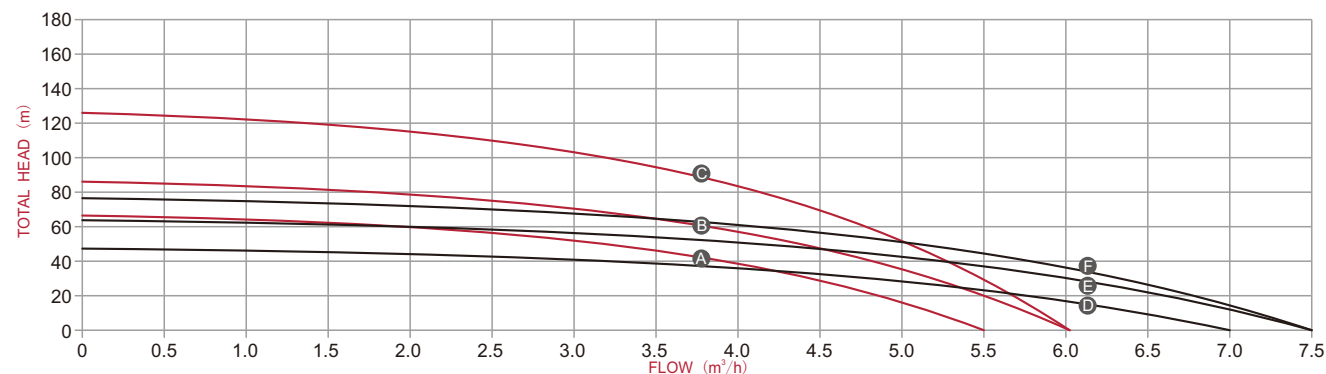
03

Bottom support

Stainless Steel
AISI 304SS/316SS

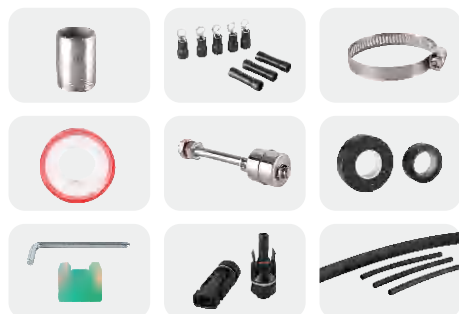


PERFORMANCE CURVES AND DATA



No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	Z3PC5.5-65-110-750-A/D	80-280V AC	80-400V DC	750W	5.5m³/h	65m	1.5"	2m	<420V	≥1.3*PUMP POWER
B	Z3PC6-84-150-1100-A/D	80-280V AC	80-400V DC	1100W	6m³/h	84m	1.5"	2m	<420V	≥1.3*PUMP POWER
C	Z3PC6-125-200-1500-A/D	80-280V AC	80-400V DC	1500W	6m³/h	125m	1.5"	2m	<420V	≥1.3*PUMP POWER
D	Z3PC7-46-110-750-A/D	80-280V AC	80-400V DC	750W	7m³/h	46m	1.5"	2m	<420V	≥1.3*PUMP POWER
E	Z3PC7.5-62-150-1100-A/D	80-280V AC	80-400V DC	1100W	7.5m³/h	62m	1.5"	2m	<420V	≥1.3*PUMP POWER
F	Z3PC7.5-78-200-1500-A/D	80-280V AC	80-400V DC	1500W	7.5m³/h	78m	1.5"	2m	<420V	≥1.3*PUMP POWER

FREE SPARE PARTS



Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.)
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity

SOLAR
ZAI

Z4PC-A/DHY

AC/DC Hybrid Solar Pump Series

ADVANCED TECHNOLOGY



01

Outlet

1.25 / 1.5 / 2.0 inch,
Stainless Steel AISI 304SS/316SS

02

Inlet

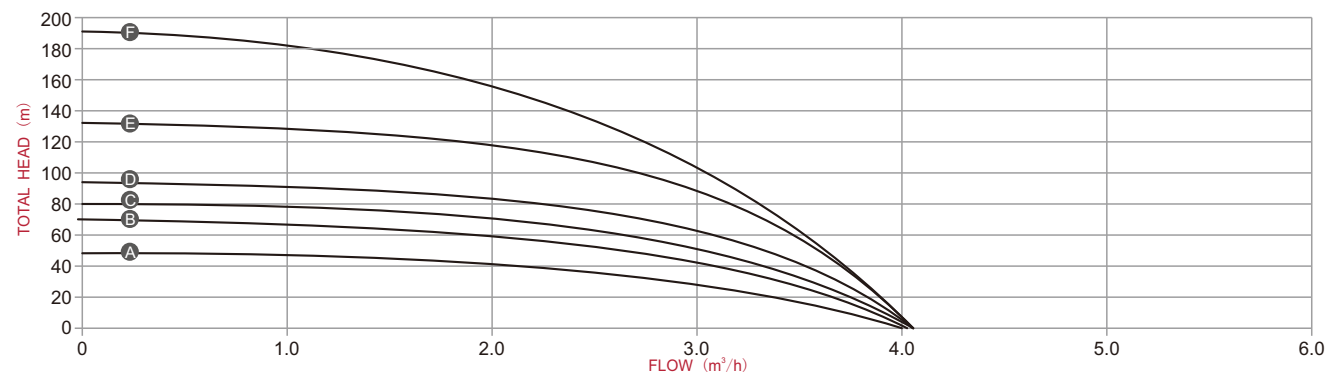
Stainless Steel
AISI 304SS/316SS

03

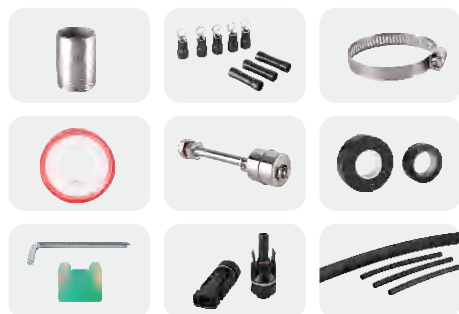
Bottom support

Stainless Steel
AISI 304SS/316SS

PERFORMANCE CURVES AND DATA



FREE SPARE PARTS



Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity

No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	Z4PC4-50-72-600-A/D	80-280V AC	80-400V DC	600W	4m³/h	50m	1.25"	2m	<420V	≥1.3*PUMP POWER
B	Z4PC4-70-96-750-A/D	80-280V AC	80-400V DC	750W	4m³/h	70m	1.25"	2m	<420V	≥1.3*PUMP POWER
C	Z4PC4-80-120-900-A/D	80-280V AC	80-400V DC	900W	4m³/h	80m	1.25"	2m	<420V	≥1.3*PUMP POWER
D	Z4PC4-95-150-1100-A/D	80-280V AC	80-400V DC	1100W	4m³/h	95m	1.25"	2m	<420V	≥1.3*PUMP POWER
E	Z4PC4-130-200-1500-A/D	80-280V AC	80-400V DC	1500W	4m³/h	130m	1.25"	2m	<420V	≥1.3*PUMP POWER
F	Z4PC4-190-300-2200-A/D	80-280V AC	80-400V DC	2200W	4m³/h	190m	1.25"	2m	<420V	≥1.3*PUMP POWER

SOLAR
ZAI

Z4PC-A/DHY

AC/DC Hybrid Solar Pump Series

ADVANCED TECHNOLOGY



01

Outlet

1.25 / 1.5 / 2.0 inch,
Stainless Steel AISI 304SS/316SS

02

Inlet

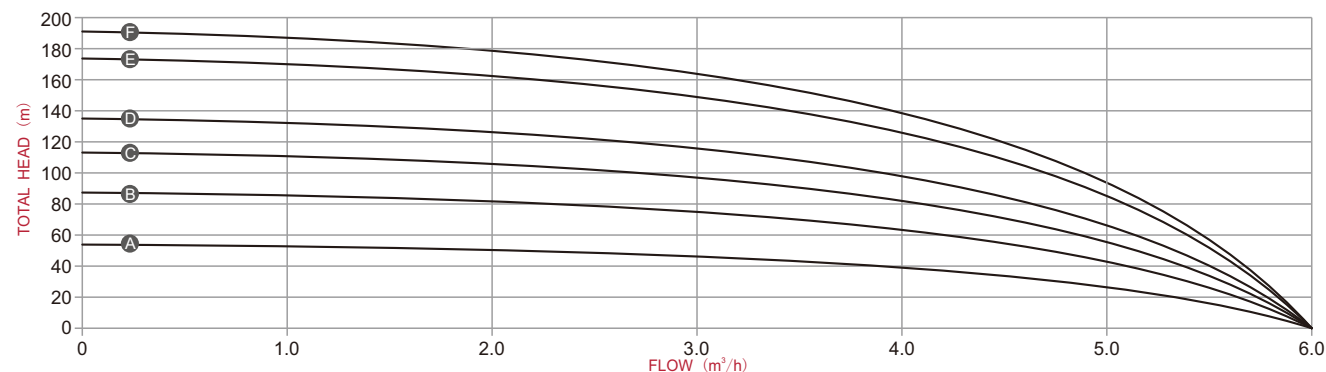
Stainless Steel
AISI 304SS/316SS

03

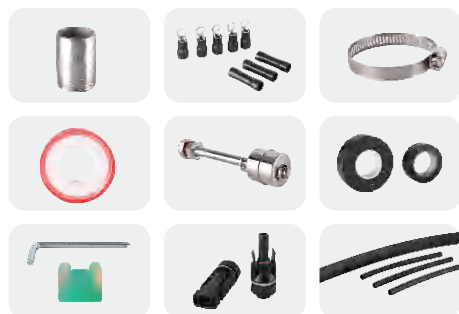
Bottom support

Stainless Steel
AISI 304SS/316SS

PERFORMANCE CURVES AND DATA



FREE SPARE PARTS



Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity

No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	Z4PC6-56-110-750-A/D	80-280V AC	80-400V DC	750W	6m³/h	56m	1.25"	2m	<420V	≥1.3*PUMP POWER
B	Z4PC6-84-150-1100-A/D	80-280V AC	80-400V DC	1100W	6m³/h	84m	1.25"	2m	<420V	≥1.3*PUMP POWER
C	Z4PC6-112-150-1300-A/D	80-280V AC	80-400V DC	1300W	6m³/h	112m	1.25"	2m	<420V	≥1.3*PUMP POWER
D	Z4PC6-135-200-1500-A/D	80-280V AC	80-400V DC	1500W	6m³/h	135m	1.25"	2m	<420V	≥1.3*PUMP POWER
E	Z4PC6-175-300-2200-A/D	80-280V AC	80-400V DC	2200W	6m³/h	175m	1.25"	2m	<420V	≥1.3*PUMP POWER
F	Z4PC6-192-300-2500-A/D	80-280V AC	80-400V DC	2500W	6m³/h	192m	1.25"	2m	<420V	≥1.3*PUMP POWER

SOLAR
ZAI

Z4PC-A/DHY

AC/DC Hybrid Solar Pump Series



01

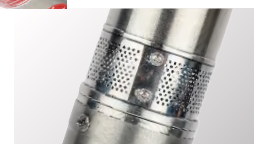
Outlet

1.25 / 1.5 / 2.0 inch,
Stainless Steel AISI 304SS/316SS

02

Inlet

Stainless Steel
AISI 304SS/316SS



03

Bottom support

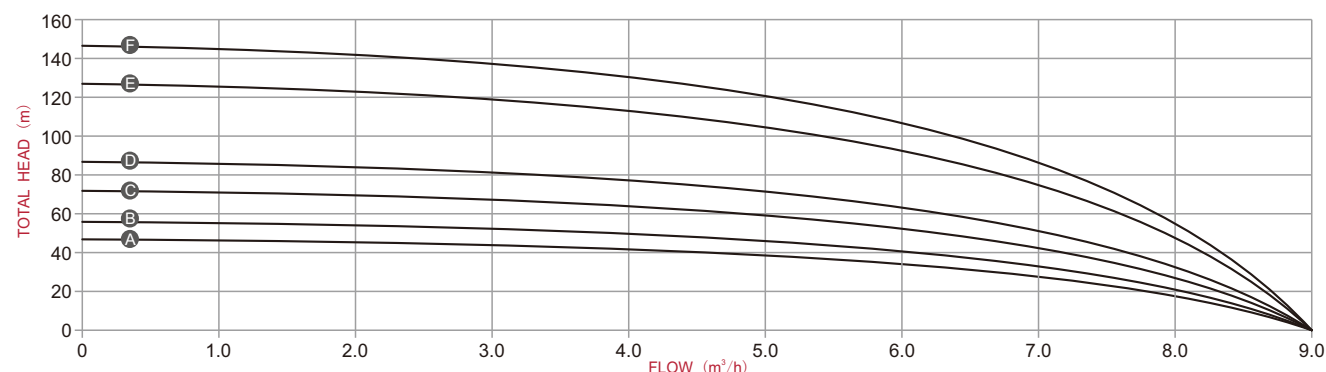
Stainless Steel
AISI 304SS/316SS



ADVANCED TECHNOLOGY

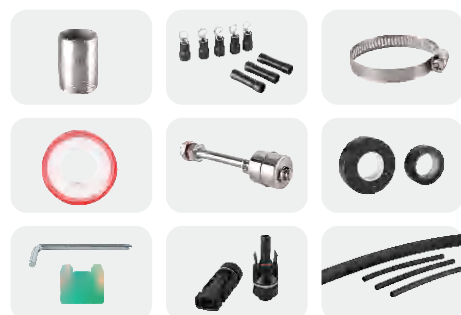


PERFORMANCE CURVES AND DATA



No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	Z4PC9-45-110-750-A/D	80-280V AC	80-400V DC	750W	9m³/h	45m	2"	2m	<420V	≥1.3*PUMP POWER
B	Z4PC9-58-150-1100-A/D	80-280V AC	80-400V DC	1100W	9m³/h	58m	2"	2m	<420V	≥1.3*PUMP POWER
C	Z4PC9-71-150-1300-A/D	80-280V AC	80-400V DC	1300W	9m³/h	71m	2"	2m	<420V	≥1.3*PUMP POWER
D	Z4PC9-85-200-1500-A/D	80-280V AC	80-400V DC	1500W	9m³/h	85m	2"	2m	<420V	≥1.3*PUMP POWER
E	Z4PC9-125-300-2200-A/D	80-280V AC	80-400V DC	2200W	9m³/h	125m	2"	2m	<420V	≥1.3*PUMP POWER
F	Z4PC9-148-300-2500-A/D	80-280V AC	80-400V DC	2500W	9m³/h	148m	2"	2m	<420V	≥1.3*PUMP POWER

FREE SPARE PARTS



Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity

SOLAR
Z4PC

Z4PC-A/DHY

AC/DC Hybrid Solar Pump Series



01

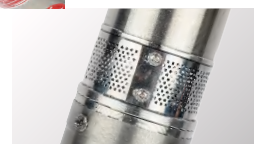
Outlet

1.25 / 1.5 / 2.0 inch,
Stainless Steel AISI 304SS/316SS

02

Inlet

Stainless Steel
AISI 304SS/316SS



03

Bottom support

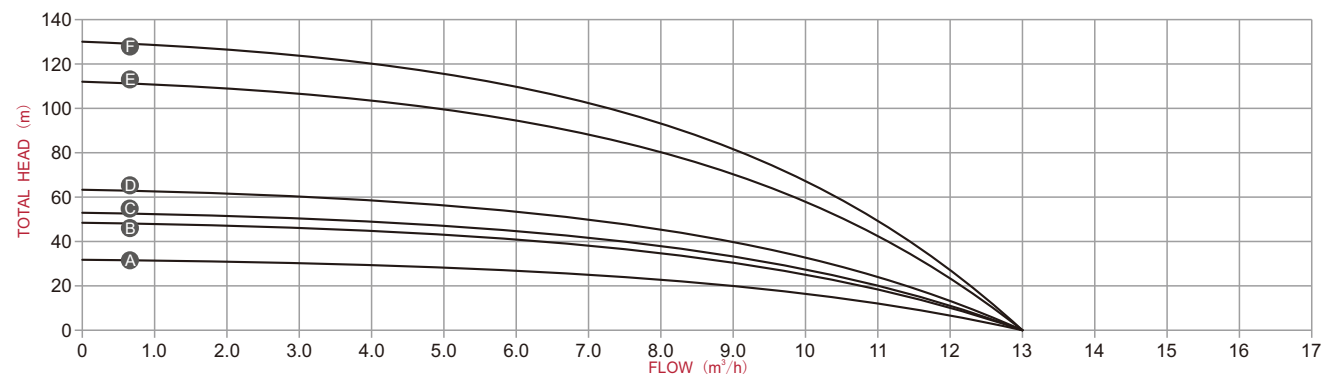
Stainless Steel
AISI 304SS/316SS



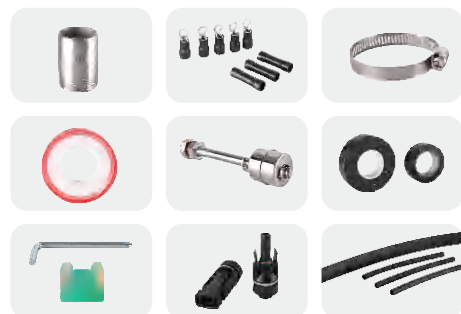
ADVANCED TECHNOLOGY



PERFORMANCE CURVES AND DATA



FREE SPARE PARTS



Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity

No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	Z4PC13-42-110-750-A/D	80-280V AC	80-400V DC	750W	13m³/h	42m	2"	2m	<420V	≥1.3*PUMP POWER
B	Z4PC13-50-150-1100-A/D	80-280V AC	80-400V DC	1100W	13m³/h	50m	2"	2m	<420V	≥1.3*PUMP POWER
C	Z4PC13-58-150-1300-A/D	80-280V AC	80-400V DC	1300W	13m³/h	58m	2"	2m	<420V	≥1.3*PUMP POWER
D	Z4PC13-63-200-1500-A/D	80-280V AC	80-400V DC	1500W	13m³/h	63m	2"	2m	<420V	≥1.3*PUMP POWER
E	Z4PC13-110-300-2200-A/D	80-280V AC	80-400V DC	2200W	13m³/h	110m	2"	2m	<420V	≥1.3*PUMP POWER
F	Z4PC13-130-300-2500-A/D	80-280V AC	80-400V DC	2500W	13m³/h	130m	2"	2m	<420V	≥1.3*PUMP POWER

SOLAR
ZAI

Z4PC-A/DHY

AC/DC Hybrid Solar Pump Series

ADVANCED TECHNOLOGY



01

Outlet

1.25 / 1.5 / 2.0 inch,
Stainless Steel AISI 304SS/316SS

02

Inlet

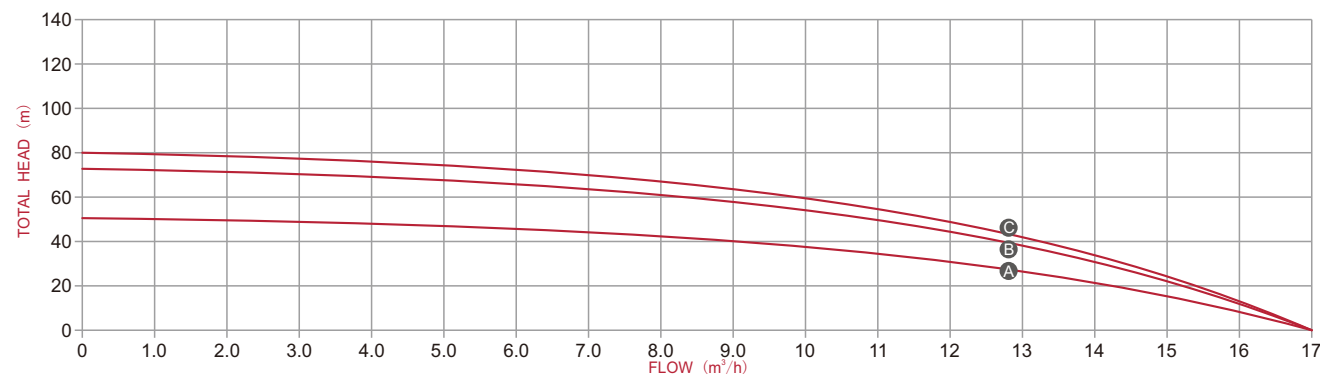
Stainless Steel
AISI 304SS/316SS

03

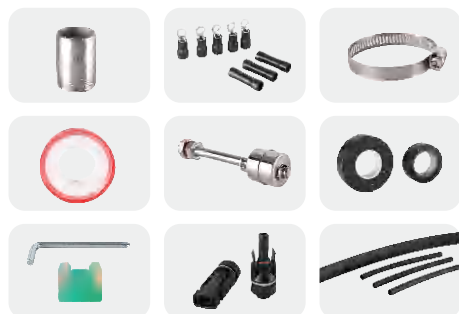
Bottom support

Stainless Steel
AISI 304SS/316SS

PERFORMANCE CURVES AND DATA



FREE SPARE PARTS



Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity

No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	Z4PC17-48-200-1500-A/D	80-280V AC	80-400V DC	1500W	17m³/h	48m	2"	2m	<420V	≥1.3*PUMP POWER
B	Z4PC17-72-300-2200-A/D	80-280V AC	80-400V DC	2200W	17m³/h	72m	2"	2m	<420V	≥1.3*PUMP POWER
C	Z4PC17-80-300-2500-A/D	80-280V AC	80-400V DC	2500W	17m³/h	80m	2"	2m	<420V	≥1.3*PUMP POWER
D	Z4PC20-45-200-1500-A/D	80-280V AC	80-400V DC	1500W	20m³/h	45m	2"	2m	<420V	≥1.3*PUMP POWER
E	Z4PC22-70-300-2200-A/D	80-280V AC	80-400V DC	2200W	22m³/h	70m	2"	2m	<420V	≥1.3*PUMP POWER
F	Z4PC30-60-300-2500-A/D	80-280V AC	80-400V DC	2500W	30m³/h	60m	2"	2m	<420V	≥1.3*PUMP POWER

SOLAR
ZAI

Z3SC-A/DHY

AC/DC Hybrid Solar Pump Series

ADVANCED TECHNOLOGY



01

Outlet

1.25 / 1.5 inch,
Stainless Steel AISI 304SS/316SS



02

Inlet

Stainless Steel
AISI 304SS/316SS

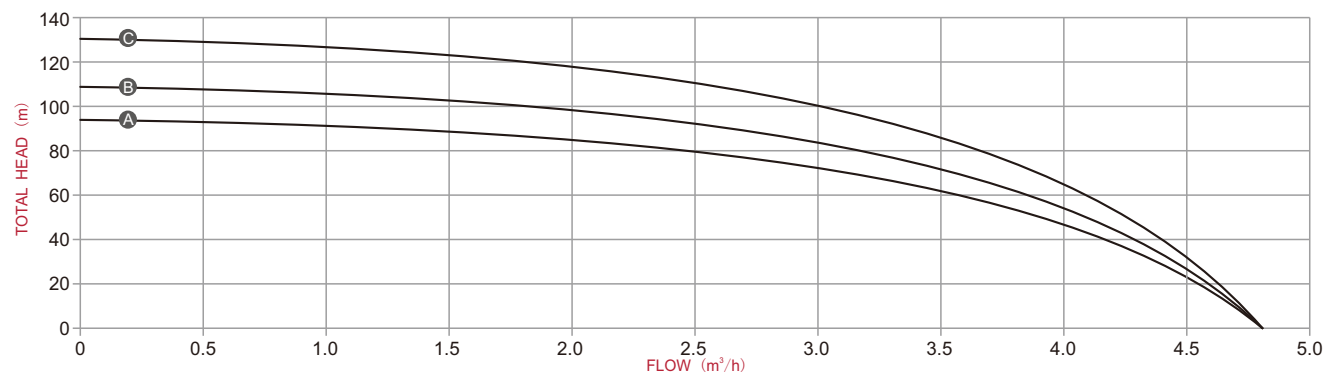
03

Bottom support

Stainless Steel
AISI 304SS/316SS



PERFORMANCE CURVES AND DATA



FREE SPARE PARTS



Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity

No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	Z3SC4.8-95-110-750-A/D	80-280V AC	80-400V DC	750W	4.8m³/h	95m	1.25"	2m	<420V	≥1.3*PUMP POWER
B	Z3SC4.8-110-150-1100-A/D	80-280V AC	80-400V DC	1100W	4.8m³/h	110m	1.25"	2m	<420V	≥1.3*PUMP POWER
C	Z3SC4.8-130-200-1500-A/D	80-280V AC	80-400V DC	1500W	4.8m³/h	130m	1.25"	2m	<420V	≥1.3*PUMP POWER

SOLAR
ZAI

Z4SC-A/DHY

AC/DC Hybrid Solar Pump Series

ADVANCED TECHNOLOGY



01

Outlet

1.25 / 1.5 / 2.0 inch,
Stainless Steel AISI 304SS/316SS

02

Inlet

Stainless Steel
AISI 304SS/316SS



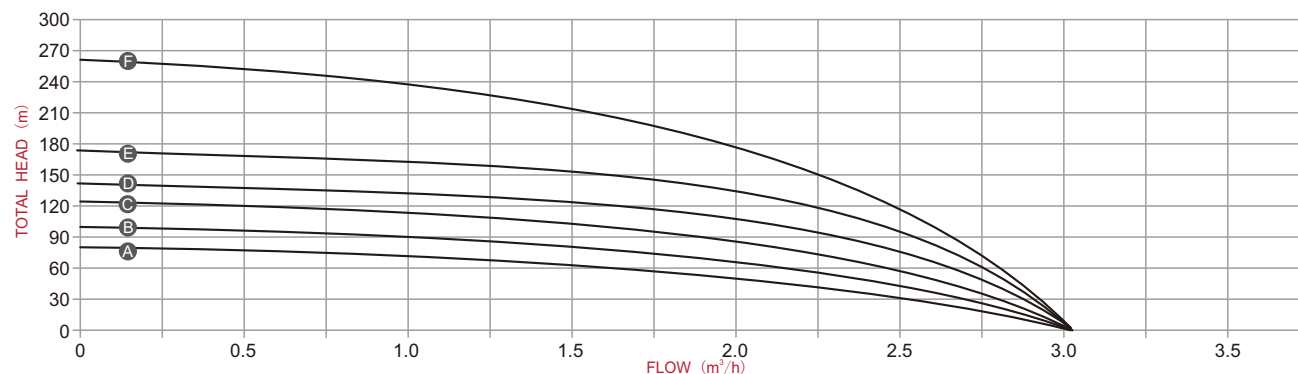
03

Bottom support

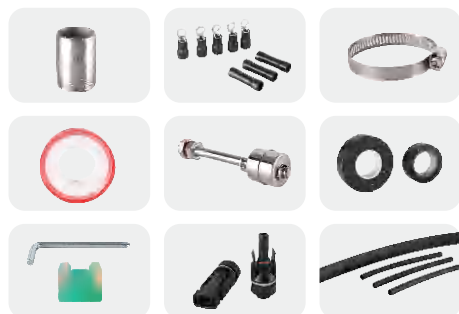
Stainless Steel
AISI 304SS/316SS



PERFORMANCE CURVES AND DATA



FREE SPARE PARTS



Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity

No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	Z4SC3.0-80-110-750-A/D	80-280V AC	80-400V DC	750W	3.0m³/h	80m	1.25"	2m	<420V	≥1.3*PUMP POWER
B	Z4SC3.0-100-150-1100-A/D	80-280V AC	80-400V DC	1100W	3.0m³/h	100m	1.25"	2m	<420V	≥1.3*PUMP POWER
C	Z4SC3.0-125-200-1300-A/D	80-280V AC	80-400V DC	1300W	3.0m³/h	125m	1.25"	2m	<420V	≥1.3*PUMP POWER
D	Z4SC3.0-140-200-1500-A/D	80-280V AC	80-400V DC	1500W	3.0m³/h	140m	1.25"	2m	<420V	≥1.3*PUMP POWER
E	Z4SC3.0-170-300-2200-A/D	80-280V AC	80-400V DC	2200W	3.0m³/h	170m	1.25"	2m	<420V	≥1.3*PUMP POWER
F	Z4SC3.0-260-300-2500-A/D	80-280V AC	80-400V DC	2500W	3.0m³/h	260m	1.25"	2m	<420V	≥1.3*PUMP POWER

SOLAR
ZAI

Z4SC-A/DHY

AC/DC Hybrid Solar Pump Series

ADVANCED TECHNOLOGY



01

Outlet

1.25 / 1.5 / 2.0 inch,
Stainless Steel AISI 304SS/316SS

02

Inlet

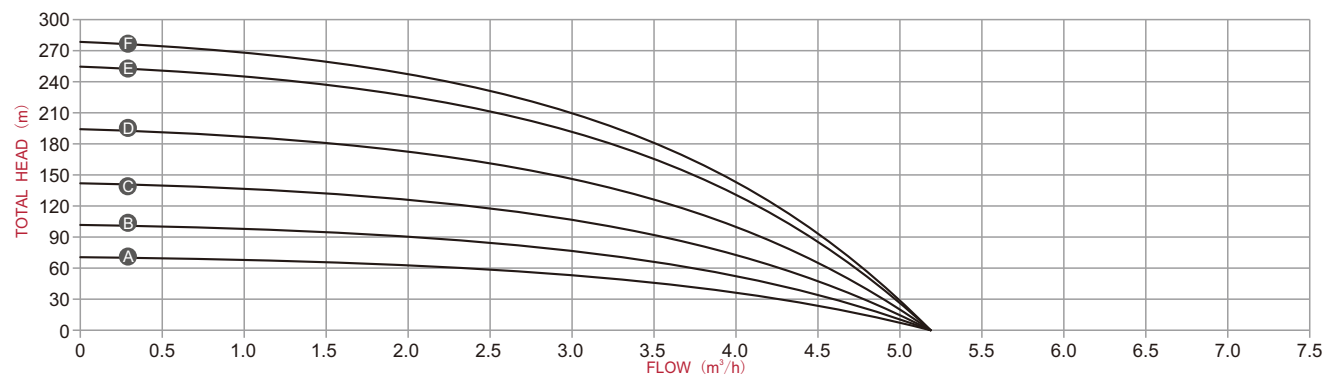
Stainless Steel
AISI 304SS/316SS

03

Bottom support

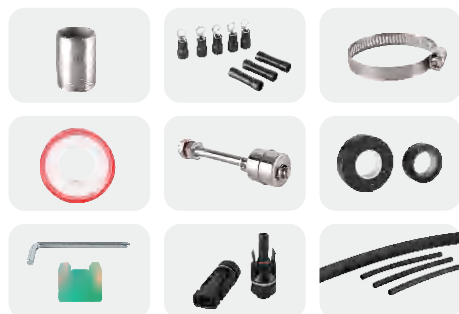
Stainless Steel
AISI 304SS/316SS

PERFORMANCE CURVES AND DATA



No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	Z4SC5.2-67-110-750-A/D	80-280V AC	80-400V DC	750W	5.2m³/h	67m	1.25"	2m	<420V	≥1.3*PUMP POWER
B	Z4SC5.2-101-150-1100-A/D	80-280V AC	80-400V DC	1100W	5.2m³/h	101m	1.25"	2m	<420V	≥1.3*PUMP POWER
C	Z4SC5.2-146-200-1300-A/D	80-280V AC	80-400V DC	1300W	5.2m³/h	146m	1.25"	2m	<420V	≥1.3*PUMP POWER
D	Z4SC5.2-198-200-1500-A/D	80-280V AC	80-400V DC	1500W	5.2m³/h	198m	1.25"	2m	<420V	≥1.3*PUMP POWER
E	Z4SC5.2-255-300-2200-A/D	80-280V AC	80-400V DC	2200W	5.2m³/h	255m	1.25"	2m	<420V	≥1.3*PUMP POWER
F	Z4SC5.2-275-300-2500-A/D	80-280V AC	80-400V DC	2500W	5.2m³/h	275m	1.25"	2m	<420V	≥1.3*PUMP POWER

FREE SPARE PARTS



Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.)
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity

SOLAR
ZAI

Z4SC-A/DHY

AC/DC Hybrid Solar Pump Series

ADVANCED TECHNOLOGY



01

Outlet

1.25 / 1.5 / 2.0 inch,
Stainless Steel AISI 304SS/316SS

02

Inlet

Stainless Steel
AISI 304SS/316SS



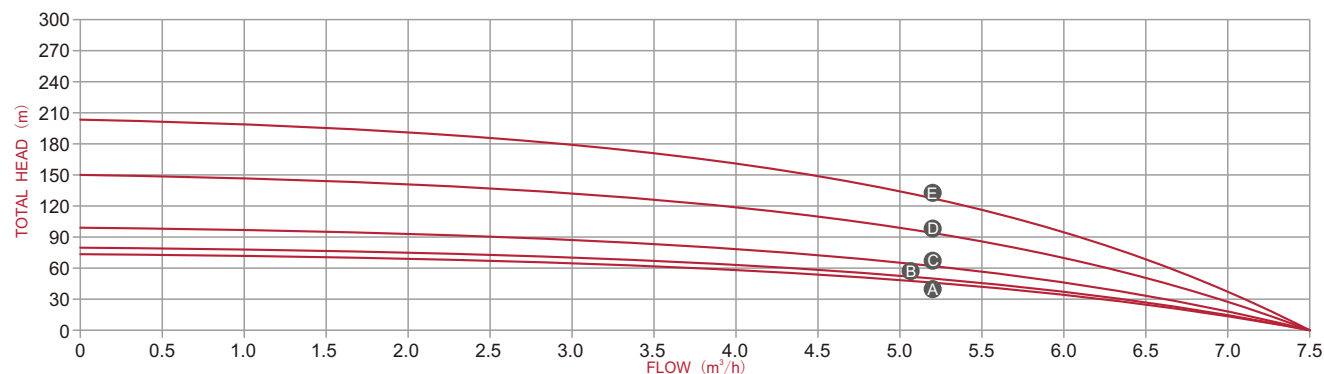
03

Bottom support

Stainless Steel
AISI 304SS/316SS

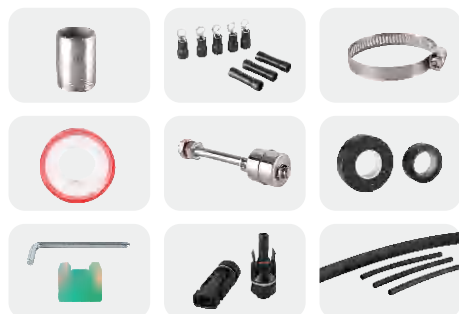


PERFORMANCE CURVES AND DATA



No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	Z4SC7.5-68-150-1100-A/D	80-280V AC	80-400V DC	1100W	7.5m³/h	68m	1.25"	2m	<420V	≥1.3*PUMP POWER
B	Z4SC7.5-80-150-1300-A/D	80-280V AC	80-400V DC	1300W	7.5m³/h	80m	1.25"	2m	<420V	≥1.3*PUMP POWER
C	Z4SC7.5-100-200-1500-A/D	80-280V AC	80-400V DC	1500W	7.5m³/h	100m	1.25"	2m	<420V	≥1.3*PUMP POWER
D	Z4SC7.5-150-300-2200-A/D	80-280V AC	80-400V DC	2200W	7.5m³/h	150m	1.25"	2m	<420V	≥1.3*PUMP POWER
E	Z4SC7.5-205-300-2500-A/D	80-280V AC	80-400V DC	2500W	7.5m³/h	205m	1.25"	2m	<420V	≥1.3*PUMP POWER

FREE SPARE PARTS



Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity

SOLAR
ZAI

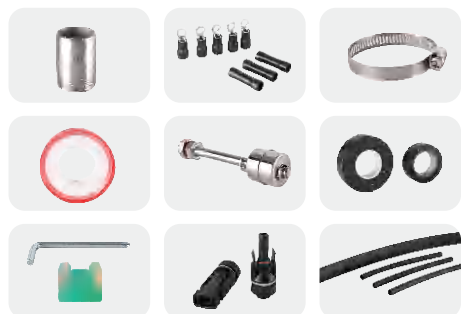
Z4SC-A/DHY

AC/DC Hybrid Solar Pump Series

ADVANCED TECHNOLOGY



FREE SPARE PARTS



Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity



01

Outlet

1.25 / 1.5 / 2.0 inch,
Stainless Steel AISI 304SS/316SS

02

Inlet

Stainless Steel
AISI 304SS/316SS

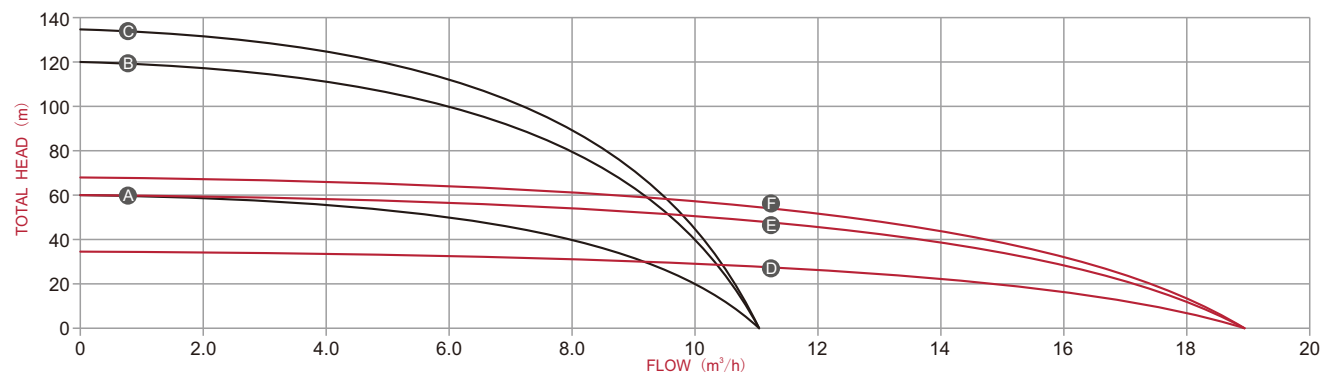


03

Bottom support

Stainless Steel
AISI 304SS/316SS

PERFORMANCE CURVES AND DATA



No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	Z4SC11-60-200-1500-A/D	80-280V AC	80-400V DC	1500W	11m³/h	60m	2"	2m	<420V	≥1.3*PUMP POWER
B	Z4SC11-120-300-2200-A/D	80-280V AC	80-400V DC	2200W	11m³/h	120m	2"	2m	<420V	≥1.3*PUMP POWER
C	Z4SC11-136-300-2500-A/D	80-280V AC	80-400V DC	2500W	11m³/h	136m	2"	2m	<420V	≥1.3*PUMP POWER
D	Z4SC19-35-200-1500-A/D	80-280V AC	80-400V DC	1500W	19m³/h	35m	2"	2m	<420V	≥1.3*PUMP POWER
E	Z4SC19-60-300-2200-A/D	80-280V AC	80-400V DC	2200W	19m³/h	60m	2"	2m	<420V	≥1.3*PUMP POWER
F	Z4SC19-68-300-2500-A/D	80-280V AC	80-400V DC	2500W	19m³/h	68m	2"	2m	<420V	≥1.3*PUMP POWER

SOLAR
ZAI

Z4/6SC-A/DHY

AC/DC Hybrid Solar Pump Series



01

Outlet

3.0 inch,
Stainless Steel AISI 304SS/316SS

02

Inlet

Stainless Steel
AISI 304SS/316SS



03

Bottom support

Stainless Steel
AISI 304SS/316SS



ADVANCED TECHNOLOGY



Running Speed
Control



Short-Circuit
Protection



MPPT



Dry Running
Protection



Soft Starting
Protection



Reverse Voltage
Protection



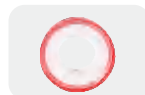
Low-voltage /
Over-voltage
Protection



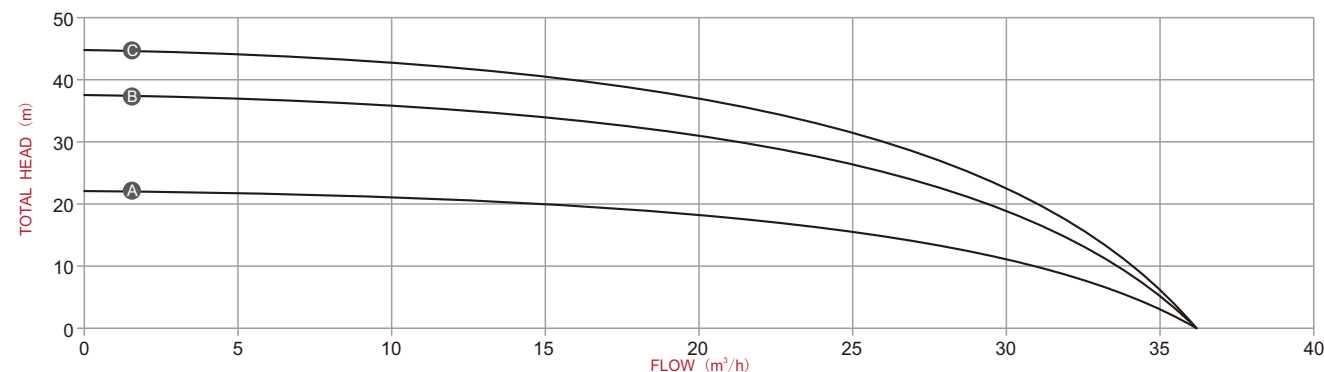
Over Current
Protection



FREE SPARE PARTS



PERFORMANCE CURVES AND DATA



No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	Z4/6SC36-22-200-1500-A/D	80-280V AC	80-400V DC	1500W	36m³/h	22m	3"	2m	<420V	≥1.3*PUMP POWER
B	Z4/6SC36-38-300-2200-A/D	80-280V AC	80-400V DC	2200W	36m³/h	38m	3"	2m	<420V	≥1.3*PUMP POWER
C	Z4/6SC36-45-300-2500-A/D	80-280V AC	80-400V DC	2500W	36m³/h	45m	3"	2m	<420V	≥1.3*PUMP POWER

Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity



WATER - FILLED MOTOR

ENCAPSULATE MOTOR FOR OPTION



SOLAR
ZAI

Z3SW-A/DHY

AC/DC Hybrid Solar Pump Series



01

Outlet

1.25 / 1.5 inch,
Stainless Steel AISI 304SS/316SS

02

Inlet

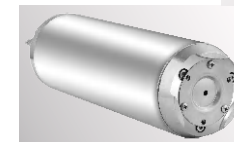
Stainless Steel
AISI 304SS/316SS



03

Bottom support

Stainless Steel
AISI 304SS/316SS



ADVANCED TECHNOLOGY



Running Speed
Control



Short-Circuit
Protection



MPPT



Dry Running
Protection



Soft Starting
Protection



Reverse Voltage
Protection

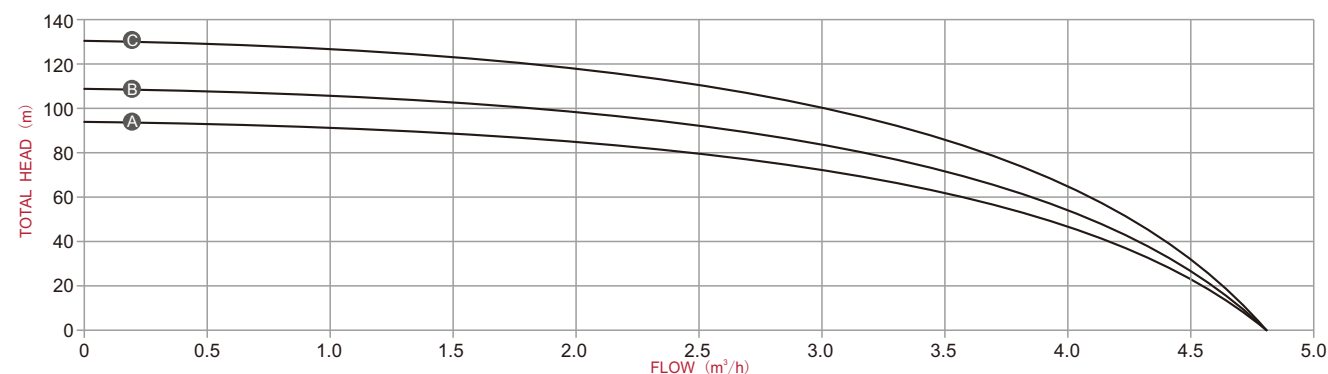


Low-voltage /
Over-voltage
Protection

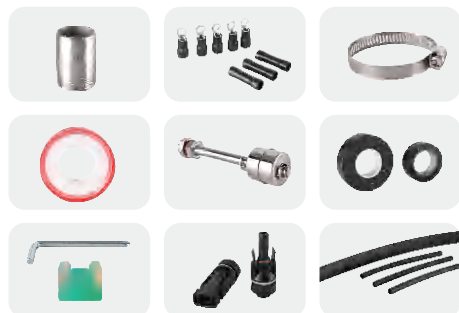


Over Current
Protection

PERFORMANCE CURVES AND DATA



FREE SPARE PARTS



Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity

No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	Z3SW4.8-95-110-750-A/D	80-280V AC	80-400V DC	750W	4.8m³/h	95m	1.25"	2m	<420V	≥1.3*PUMP POWER
B	Z3SW4.8-110-150-1100-A/D	80-280V AC	80-400V DC	1100W	4.8m³/h	110m	1.25"	2m	<420V	≥1.3*PUMP POWER
C	Z3SW4.8-130-200-1500-A/D	80-280V AC	80-400V DC	1500W	4.8m³/h	130m	1.25"	2m	<420V	≥1.3*PUMP POWER

SOLAR
ZAI

Z4SW-A/DHY

AC/DC Hybrid Solar Pump Series

ADVANCED TECHNOLOGY



01

Outlet

1.25 / 1.5 inch,
Stainless Steel AISI 304SS/316SS

02

Inlet

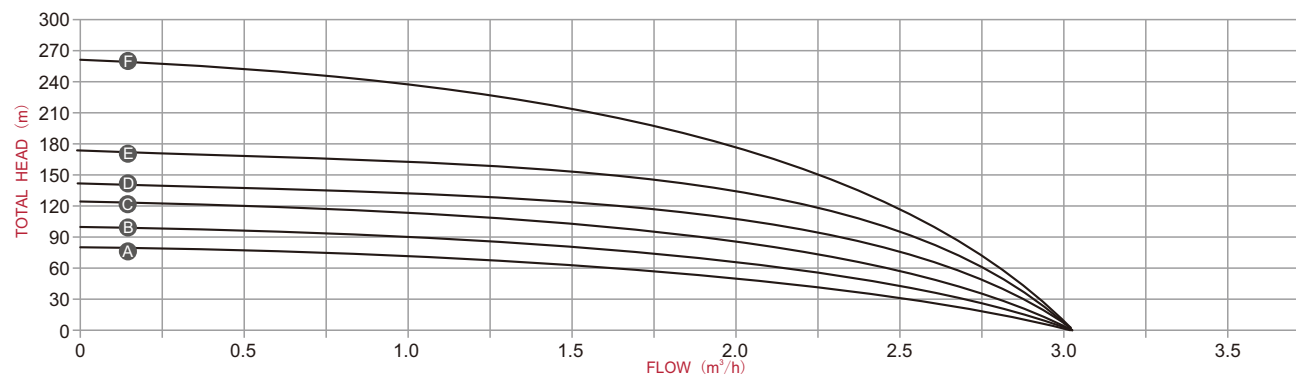
Stainless Steel
AISI 304SS/316SS

03

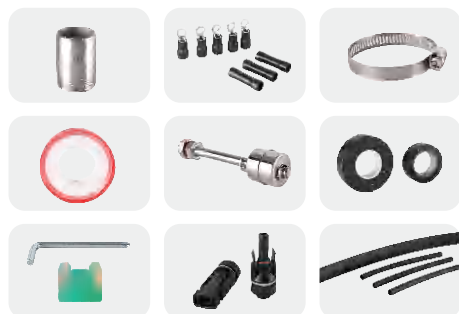
Bottom support

Stainless Steel
AISI 304SS/316SS

PERFORMANCE CURVES AND DATA



FREE SPARE PARTS



Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity

No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	Z4SW3.0-80-110-750-A/D	80-280V AC	80-400V DC	750W	3.0m³/h	80m	1.25"	2m	<420V	≥1.3*PUMP POWER
B	Z4SW3.0-100-150-1100-A/D	80-280V AC	80-400V DC	1100W	3.0m³/h	100m	1.25"	2m	<420V	≥1.3*PUMP POWER
C	Z4SW3.0-125-200-1300-A/D	80-280V AC	80-400V DC	1300W	3.0m³/h	125m	1.25"	2m	<420V	≥1.3*PUMP POWER
D	Z4SW3.0-140-200-1500-A/D	80-280V AC	80-400V DC	1500W	3.0m³/h	140m	1.25"	2m	<420V	≥1.3*PUMP POWER
E	Z4SW3.0-170-300-2200-A/D	80-280V AC	80-400V DC	2200W	3.0m³/h	170m	1.25"	2m	<420V	≥1.3*PUMP POWER
F	Z4SW3.0-260-300-2500-A/D	80-280V AC	80-400V DC	2500W	3.0m³/h	260m	1.25"	2m	<420V	≥1.3*PUMP POWER



Z4SW-A/DHY

AC/DC Hybrid Solar Pump Series

**01****Outlet**

1.25 / 1.5 inch,
Stainless Steel AISI 304SS/316SS

02**Inlet**

Stainless Steel
AISI 304SS/316SS

03**Bottom support**

Stainless Steel
AISI 304SS/316SS

ADVANCED TECHNOLOGY

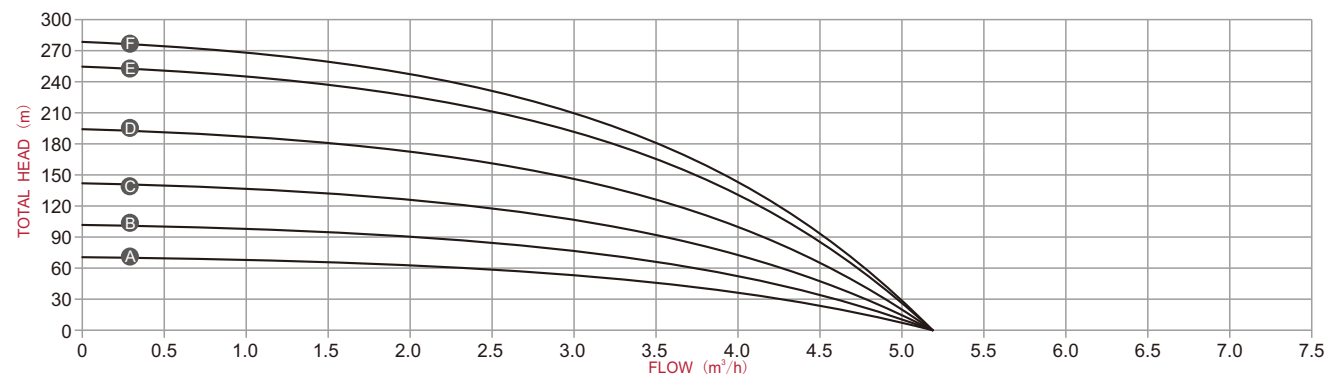


FREE SPARE PARTS



Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity

PERFORMANCE CURVES AND DATA



No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	Z4SW5.2-67-110-750-A/D	80-280V AC	80-400V DC	750W	5.2m³/h	67m	1.25"	2m	<420V	≥1.3*PUMP POWER
B	Z4SW5.2-101-150-1100-A/D	80-280V AC	80-400V DC	1100W	5.2m³/h	101m	1.25"	2m	<420V	≥1.3*PUMP POWER
C	Z4SW5.2-146-200-1300-A/D	80-280V AC	80-400V DC	1300W	5.2m³/h	146m	1.25"	2m	<420V	≥1.3*PUMP POWER
D	Z4SW5.2-198-200-1500-A/D	80-280V AC	80-400V DC	1500W	5.2m³/h	198m	1.25"	2m	<420V	≥1.3*PUMP POWER
E	Z4SW5.2-255-300-2200-A/D	80-280V AC	80-400V DC	2200W	5.2m³/h	255m	1.25"	2m	<420V	≥1.3*PUMP POWER
F	Z4SW5.2-275-300-2500-A/D	80-280V AC	80-400V DC	2500W	5.2m³/h	275m	1.25"	2m	<420V	≥1.3*PUMP POWER

SOLAR
ZAI

Z4SW-A/DHY

AC/DC Hybrid Solar Pump Series



01

Outlet

1.25 / 1.5 inch,
Stainless Steel AISI 304SS/316SS

02

Inlet

Stainless Steel
AISI 304SS/316SS

03

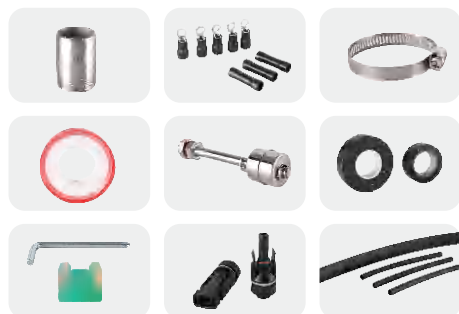
Bottom support

Stainless Steel
AISI 304SS/316SS

ADVANCED TECHNOLOGY

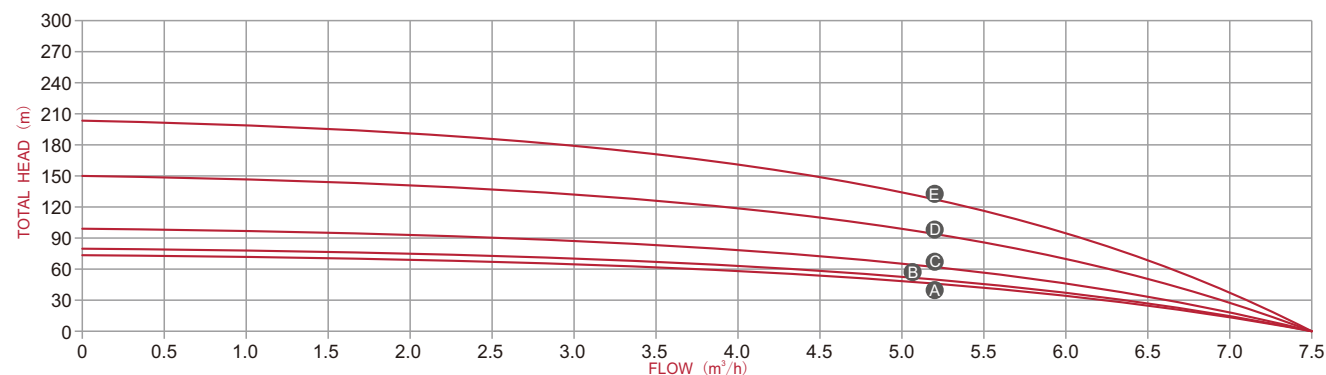


FREE SPARE PARTS



Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity

PERFORMANCE CURVES AND DATA



No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	Z4SW7.5-68-150-1100-A/D	80-280V AC	80-400V DC	1100W	7.5m³/h	68m	1.25"	2m	<420V	≥1.3*PUMP POWER
B	Z4SW7.5-80-150-1300-A/D	80-280V AC	80-400V DC	1300W	7.5m³/h	80m	1.25"	2m	<420V	≥1.3*PUMP POWER
C	Z4SW7.5-100-200-1500-A/D	80-280V AC	80-400V DC	1500W	7.5m³/h	100m	1.25"	2m	<420V	≥1.3*PUMP POWER
D	Z4SW7.5-150-300-2200-A/D	80-280V AC	80-400V DC	2200W	7.5m³/h	150m	1.25"	2m	<420V	≥1.3*PUMP POWER
E	Z4SW7.5-205-300-2500-A/D	80-280V AC	80-400V DC	2500W	7.5m³/h	205m	1.25"	2m	<420V	≥1.3*PUMP POWER

SOLAR
ZAI

Z4SW-A/DHY

AC/DC Hybrid Solar Pump Series

ADVANCED TECHNOLOGY



01

Outlet

1.25 / 1.5 inch,
Stainless Steel AISI 304SS/316SS

02

Inlet

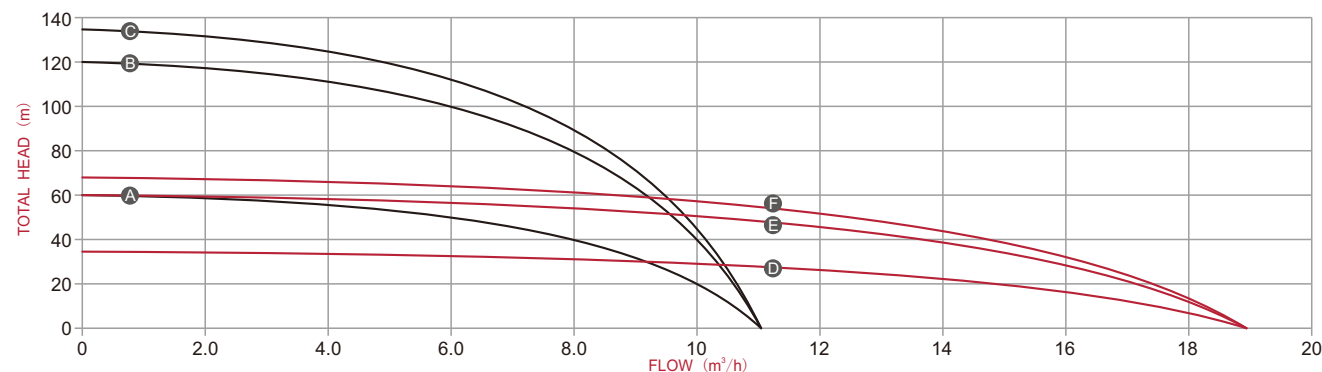
Stainless Steel
AISI 304SS/316SS

03

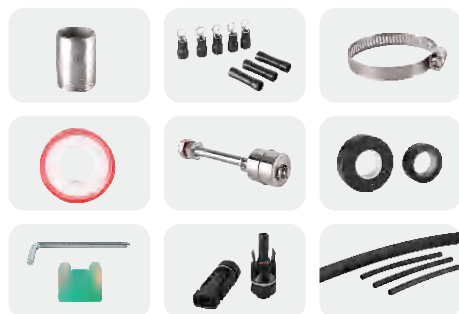
Bottom support

Stainless Steel
AISI 304SS/316SS

PERFORMANCE CURVES AND DATA



FREE SPARE PARTS



Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity

No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	Z4SW11-60-200-1500-A/D	80-280V AC	80-400V DC	1500W	11m³/h	60m	2"	2m	<420V	≥1.3*PUMP POWER
B	Z4SW11-120-300-2200-A/D	80-280V AC	80-400V DC	2200W	11m³/h	120m	2"	2m	<420V	≥1.3*PUMP POWER
C	Z4SW11-136-300-2500-A/D	80-280V AC	80-400V DC	2500W	11m³/h	136m	2"	2m	<420V	≥1.3*PUMP POWER
D	Z4SW19-35-200-1500-A/D	80-280V AC	80-400V DC	1500W	19m³/h	35m	2"	2m	<420V	≥1.3*PUMP POWER
E	Z4SW19-60-300-2200-A/D	80-280V AC	80-400V DC	2200W	19m³/h	60m	2"	2m	<420V	≥1.3*PUMP POWER
F	Z4SW19-68-300-2500-A/D	80-280V AC	80-400V DC	2500W	19m³/h	68m	2"	2m	<420V	≥1.3*PUMP POWER

SOLAR
ZAI

Z4/6SW-A/DHY

AC/DC Hybrid Solar Pump Series



01

Outlet

3.0 inch,
Stainless Steel AISI 304SS/316SS

02

Inlet

Stainless Steel
AISI 304SS/316SS

03

Bottom support

Stainless Steel
AISI 304SS/316SS

ADVANCED TECHNOLOGY



Running Speed
Control



Short-Circuit
Protection



MPPT



Dry Running
Protection



Soft Starting
Protection



Reverse Voltage
Protection

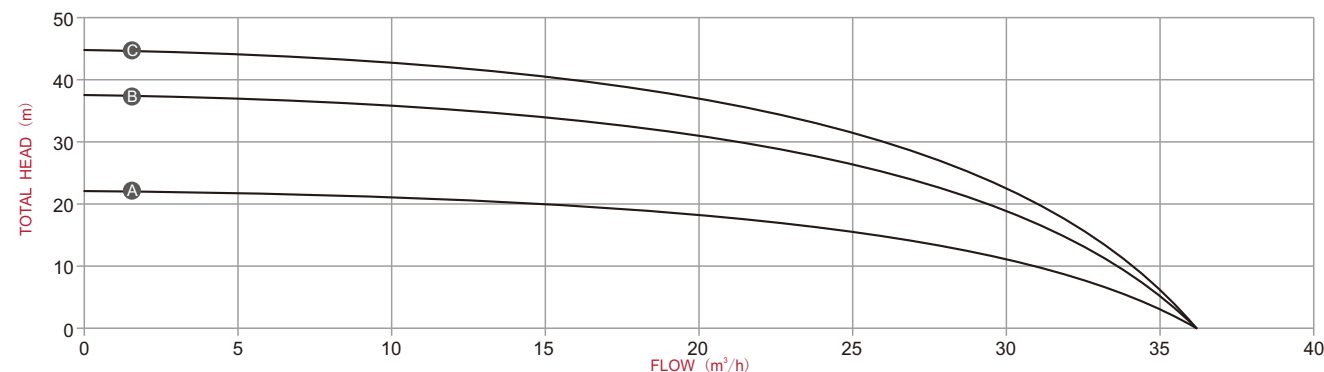


Low-voltage /
Over-voltage
Protection

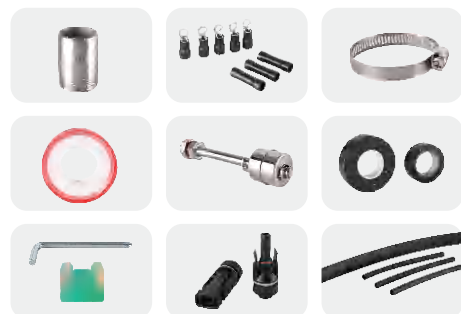


Over Current
Protection

PERFORMANCE CURVES AND DATA



FREE SPARE PARTS



Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity

No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	Z4/6SW36-22-200-1500-A/D	80-280V AC	80-400V DC	1500W	36m³/h	22m	3"	2m	<420V	≥1.3*PUMP POWER
B	Z4/6SW36-38-300-2200-A/D	80-280V AC	80-400V DC	2200W	36m³/h	38m	3"	2m	<420V	≥1.3*PUMP POWER
C	Z4/6SW36-45-300-2500-A/D	80-280V AC	80-400V DC	2500W	36m³/h	45m	3"	2m	<420V	≥1.3*PUMP POWER

SOLAR
ZAI

ZSHF-A/DHY

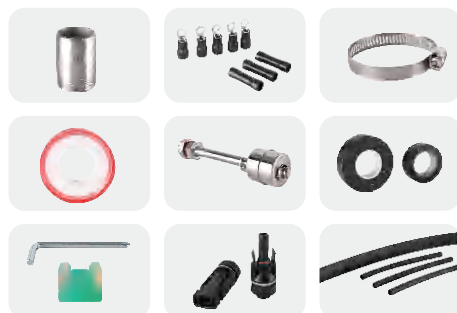
AC/DC Hybrid Solar Pump Series



ADVANCED TECHNOLOGY

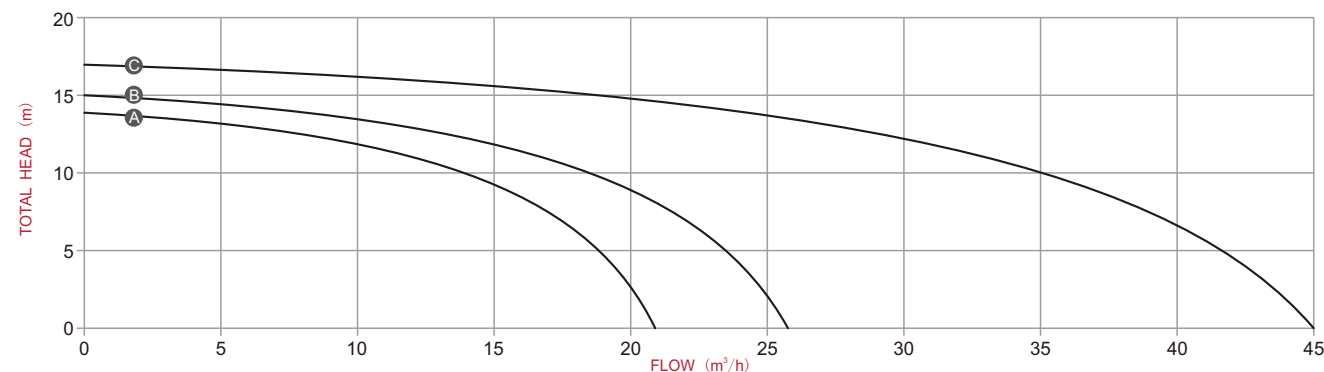


FREE SPARE PARTS



Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity

PERFORMANCE CURVES AND DATA



No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	ZSHF21-14-110-750-A/D	80-280V AC	80-400V DC	750W	21m³/h	14m	2×2"	1m	<420V	≥1.3*PUMP POWER
B	ZSHF26-15-150-1100-A/D	80-280V AC	80-400V DC	1100W	26m³/h	15m	2×2"	1m	<420V	≥1.3*PUMP POWER
C	ZSHF45-17-200-1500-A/D	80-280V AC	80-400V DC	1500W	45m³/h	17m	3×3"	1m	<420V	≥1.3*PUMP POWER
D	ZSHF60-16-300-2200-A/D	80-280V AC	80-400V DC	2200W	45m³/h	17m	3×3"	1m	<420V	≥1.3*PUMP POWER



SURFACE PUMP
WITH FRAME



ZSSP-A/DHY

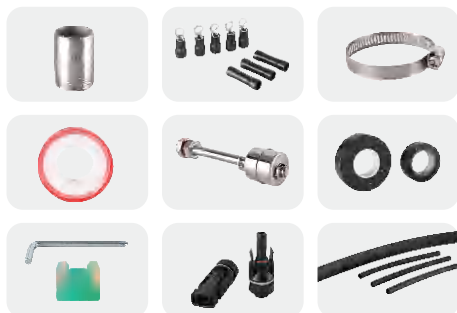
AC/DC Hybrid Solar Pump Series



ADVANCED TECHNOLOGY

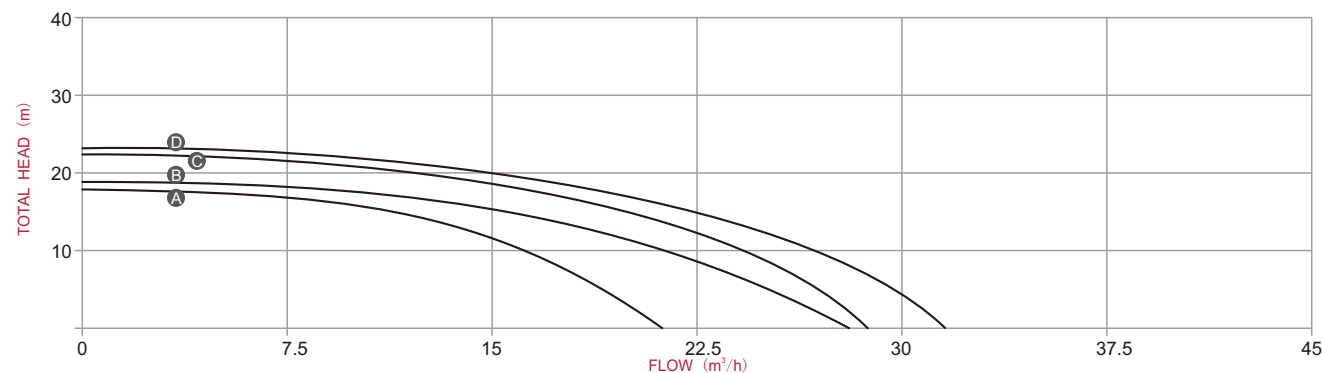


FREE SPARE PARTS



Maintenance-Free Brushless DC Motor
Integrated DSP & MPPT(Maximum Power Point remote control etc.)
Suitable for Wide DC voltage Operation
Control inputs for well probe,dry running protection
Battery Operation,low voltage disconnect for battery Tracking)
Overload and high Adjustable speed control of motor
Temperature Protection and against reverse polarity

PERFORMANCE CURVES AND DATA



No.	ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
									Open circuit voltage (VOC)	Power
A	ZSSP20-19-110-900-A/D	80-280V AC	80-400V DC	900W	20m³/h	19m	2×2"	2m	<420V	≥1.3*PUMP POWER
B	ZSSP27-19-150-1200-A/D	80-280V AC	80-400V DC	1200W	27m³/h	19m	2×2"	2m	<420V	≥1.3*PUMP POWER
C	ZSSP28-22-200-1500-A/D	80-280V AC	80-400V DC	1500W	28m³/h	22m	3×3"	2m	<420V	≥1.3*PUMP POWER
D	ZSSP35-22-300-2200-A/D	80-280V AC	80-400V DC	2200W	35m³/h	22m	3×3"	2m	<420V	≥1.3*PUMP POWER



ZHEJIANG RAMBO INTELLIGENT TECHNOLOGY CO., LTD

- 📍 ADD: Daxi Industrial Zone, Daxi Town, Wenling City, Zhejiang Province, P.R.China
- ☎ TEL: +86-166-0576-0038 +86-166-0576-0098
- ✉ E-mail: sales@zripump.com
- 🌐 [Http://www.zripump.com/](http://www.zripump.com/)