



So Be Patient



With Royal
India, you are
opting for a
greener, more
sustainable
future.





Royal India is one of the leading and fastest-growing company in the country dealing with solar products and solutions. It has established in 2015 with the objective of providing best-in-class solar products and solutions.

Within a short span of time, Royal India is now a renowned name in the solar industry and providing solutions for solar water pumps, solar street lights, and other related products. Its state-of-the-art technology and robust systems produce superior quality and long-lasting products and solutions.

Why us?

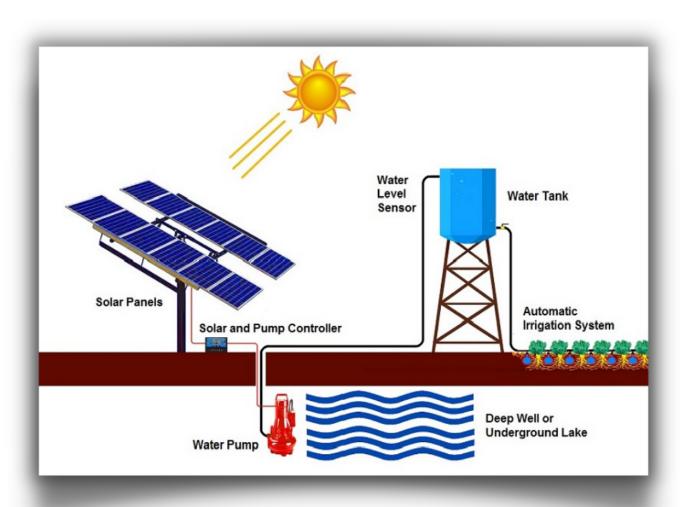
Royal India solar-powered water pumps are a low-cost solution enabling residents in these areas to spend more time increasing their income by growing crops etc., rather than ferrying water from far off distances.





Diagram of SPC Water Pumping

SPC water pumping system set uses the irradiance available through the SPC array. The SPC array produces SDC power, which can be utilized to drive a DC or an AC pump set using a pump controller.





- Seven segment ICD display to easy run parameter and type of fault.
- External keypad provided to change parameter and copy parameter.
- Having easy to power ON/OFF by DC switch
- Provided Protection as per MNRE.
- Solar pump controller must have IP65 protection and shall be housed in 3 a cabinet.
- A maximum Powerpoint tracker (MPPT) shall be included to optimally use the power and maximize water discharge.
- Solar pump controller shall be integrated with inbuilt GSN.GPRS gateway with GEO Tagging.



Smart SPC Features

Dry Running	Open Circuit	Short Circuit
Reverse polarity	Over Voltage/Under Voltage	SPD to Arrest High current surge









Certified by Underwriter Laboratories | MNRE approveda

SPC IP65 1HP to 10HP

Pump Controller converts the DC voltage of the SPC array into a suitable DC or AC, single or multi-phase power, and may also include equipment for MPPT, remote monitoring, and protection vices.

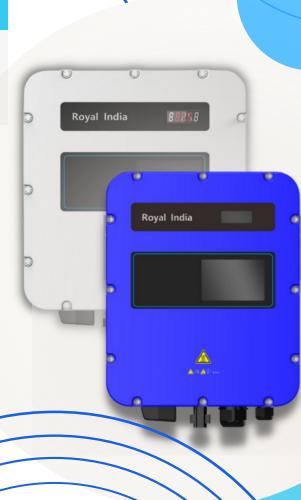
OUR PRODUCTS SIZE

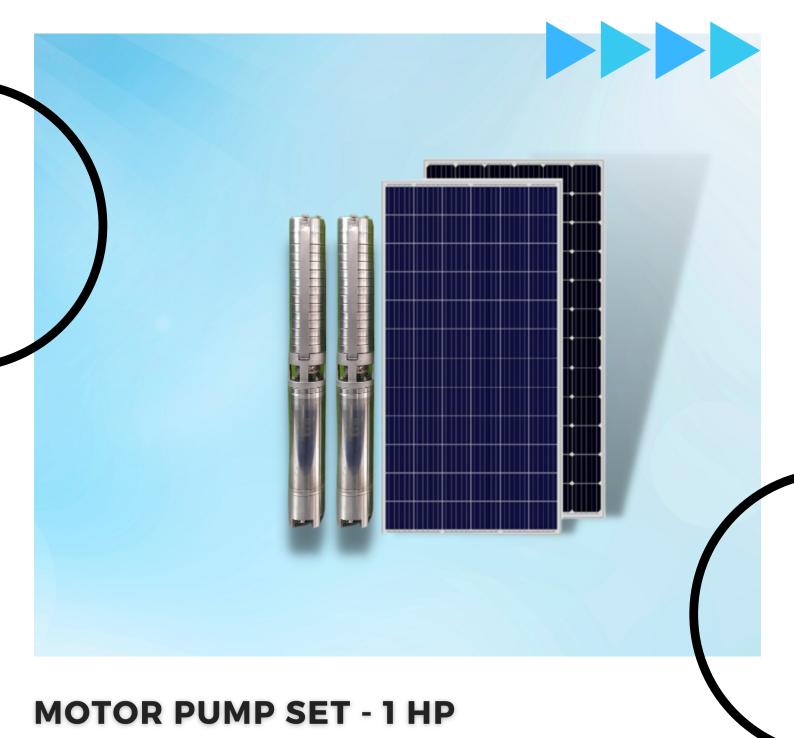
Model No	Rating	L	В	Н	Weight
RIIPL20201	2.2Kw, 3 HP	400 mm	300 mm	187 mm	4 KG
RIIPL00405	4 Kw, 5 HP	400 mm	300 mm	187 mm	6 KG
RIIPL70510	7.5 Kv,10 HP	540 mm	540 mm	280 mm	6 KG

SPC FEATURES

[Remote Monitoring System Device]

- Control Motor: PMSM/BLDC Motor
- MPPT
- Keypad: Parameter copy and paste
- RMS and IoT System
- IOT online software is update
- All kind of protection function





Specifications

Pump Model No

Motor Model No

Motor Rating (HP/kW)

Total Head, M at the Duty Point

Capacity (LPD) at Head of 10 mtr

Operating Head Range Maximum

Maximum Current(A)

Voltage Range (V)

Type-AC OPR DC Pump Set

PV Array Rating in Watts Peak (Wp)

1 HP BLDC Pump

Pump-RYL 30 / 60 / 90

RYL MT 01

1.0 / 0.75

90 MTR

5000 LPD

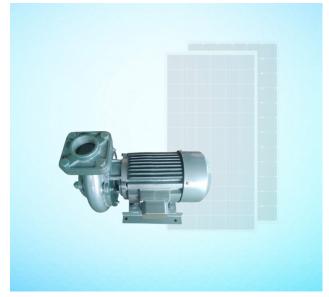
120 MTR

8.0A

96-110 VDC

BLDC

Monoblock Pump Set

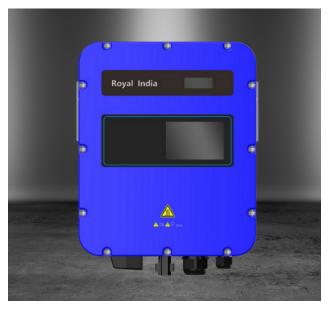


Monoblock Pump 2800 RPM Motor with High Discharge

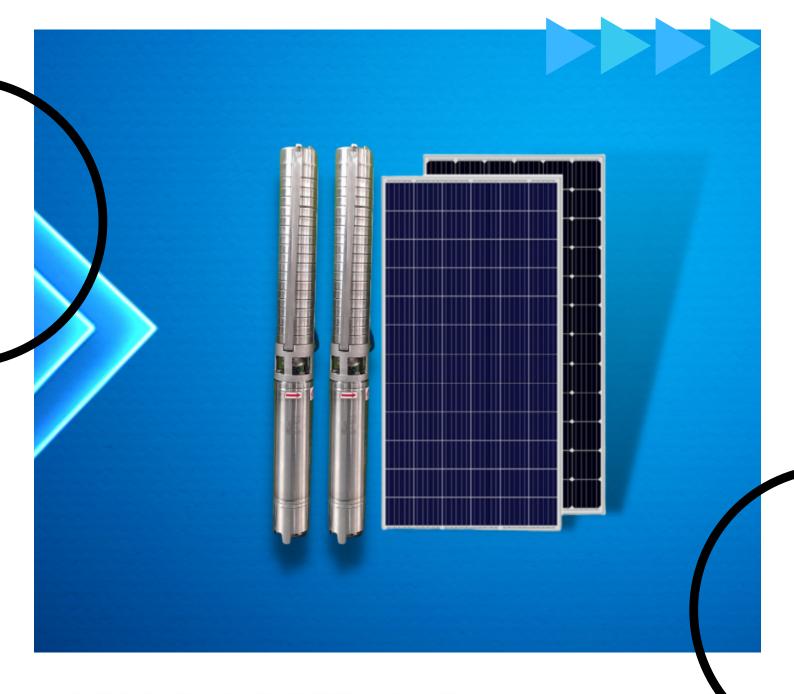
Specifications	1 HP Surface Pump
HP	1
kW	0.75
Shut of Dynamic Head	12 m
LPD with Head 30 mtr	104000L
Outlet	40 mm
Suction	40 mm
PV Input	>900 W

"SPC Series IP65 Category Solar Pump Controller with Compact Design and Low Weight. Product Life is Greater than IP54 Controller."

01	Model No	RIIPL20201
02	Voltage Range	100-440 VDC
03	Power Range	2.2 KW
04	Current Rating (A)	10.0A







MOTOR PUMP SET - 2 HP

Specifications

Pump Model No

Motor Model No

Motor Rating (HP/kW)

Total Head, Mtr at the Duty Point

Capacity (LPD) at Head

Operating Head Range M

Maximum Current(A)

Voltage Range (V)

Type-AC OPR DC Pump Set

PV Array Rating in Watts Peak (Wp)

2 HP BLDC Pump

Pump-RYL 30 / 90

RYL MT 02

2.0 / 1.5

30 MTR

68400 LPD

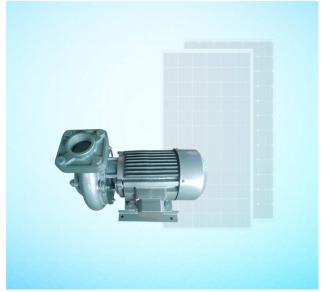
45 MTR

9.0A

160 VDC

BLDC

Monoblock Pump Set



Monoblock Pump 2800 RPM Motor with High Discharge

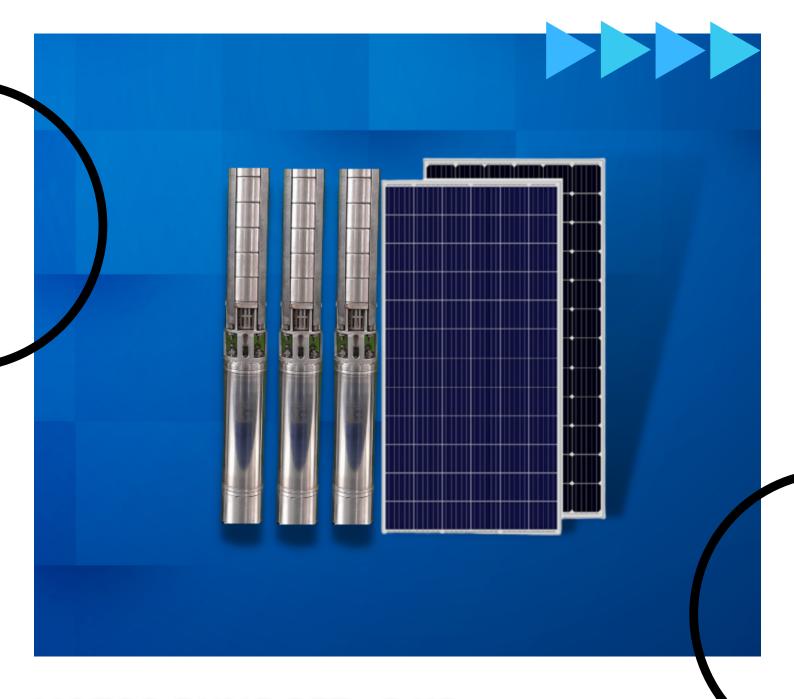
Specifications	2 HP Surface Pump	
HP	2	
kW	1.5	
Shut of Dynamic Head	12 m	
LPD (from total Head of	208000L	
10 mtr)		
Outlet	50 mm	
Suction	50 mm	
PV Input	>1800 W	

"Royal India IP65 solar water pump controller has an efficiency of 97% (as certified by Underwriter Laboratories) which is much higher than VFD products at 85%."

01	Model No	RIIPL20201
02	Voltage Range	100-440 VDC
03	Power Range	2.2 KW
04	Current Rating (A)	10.0A







MOTOR PUMP SET - 3 HP

Specifications

Pump Model No

Motor Model No

Motor Rating (HP/kW)

Total Head, 50 Mtr at the Duty Point

Capacity (LPD) at Head of 50 mtr

Operating Head Range M

Maximum Current(A)

Voltage Range (V)

Type-AC OPR DC Pump Set

PV Array Rating in Watts Peak (Wp)

3 HP BLDC Pump

Pump-RYL 30 / 50 / 70

RYL MT 03

3.0 / 2.2

70 MTR

45000 LPD

100 MTR

10.0A

220 VDC

BLDC

Monoblock Pump Set



Monoblock Pump 2800 RPM Motor with High Discharge

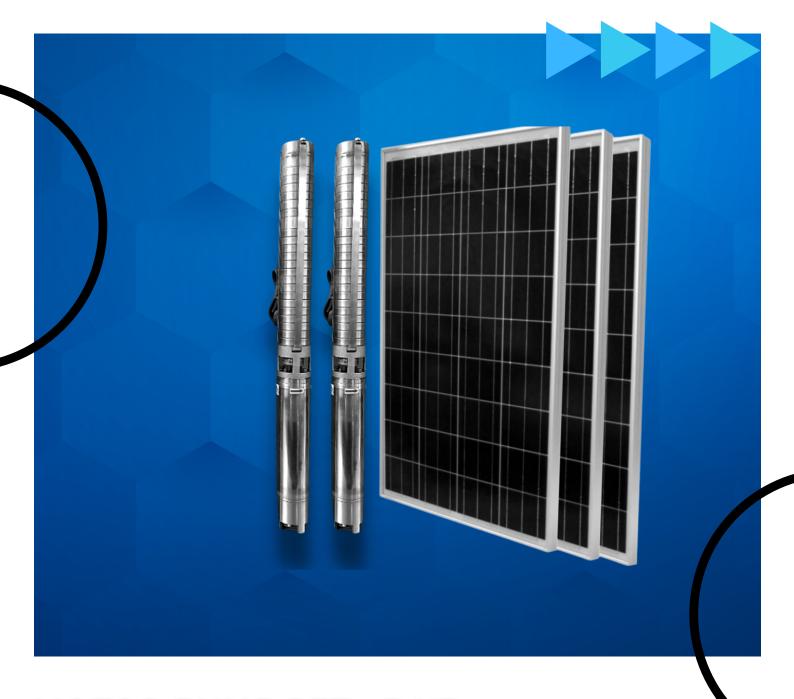
Specifications	3 HP Surface Pump
HP	3
kW	2.2
Shut of Dynamic Head	25 m
LPD (from total Head of	156000L
20 mtr)	
Outlet	50 mm
Suction	50 mm
PV Input	>3000 W

"Built-in troubleshooting, identifying issues ahead of time, and accurate diagnosis IP65."

01	Model No	RIIPL20201
02	Voltage Range	100-440 VDC
03	Power Range	2.2 KW
04	Current Rating (A)	10.0A







MOTOR PUMP SET - 5 HP

Specifications

Pump Model No

Motor Model No

Motor Rating (HP/kW)

Total Head, M at the Duty Point

Capacity (LPD) at Head of 70 mtr

Operating Head Range M

Maximum Current(A)

Voltage Range (V)

Type-AC OPR DC Pump Set

PV Array Rating in Watts Peak (Wp)

5 HP BLDC Pump

Pump-RYL 50 / 70 / 100

RYL MT 05

5.0 / 3.7

70 MTR

72000 LPD

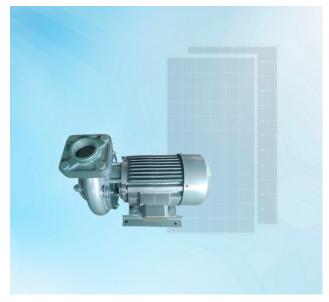
100 MTR

16A

380 VDC

BLDC

Monoblock Pump Set



Monoblock Pump 2800 RPM Motor with High Discharge

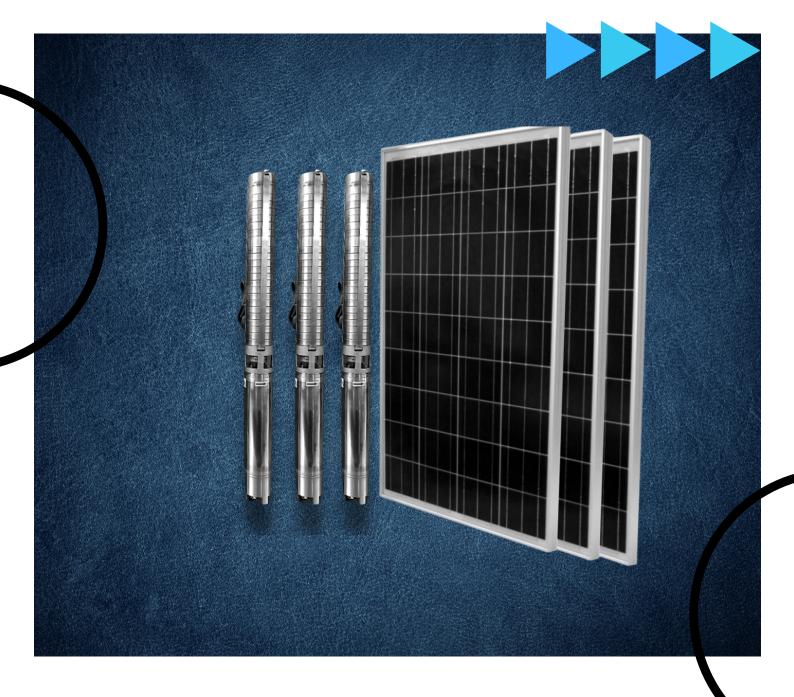
Specifications	5 HP Surface Pump
HP	5
kW	3.7
Shut of Dynamic Head	25 m
LPD (from total Head of	277000L
20 mtr)	
Outlet	50 mm
Suction	65 mm
PV Input	>4800 W

"Royal India Solar Water Pump Controller with enabled GPS and Remote Monitoring for Solar Irrigation System."

01	Model No	RIIPL00405
02	Voltage Range	100-440 VDC
03	Power Range	4 KW
04	Current Rating (A)	16.A







MOTOR PUMP SET - 7.5 HP

Specifications

Pump Model No

Motor Model No

Motor Rating (HP/kW)

Total Head, M at the Duty Point

Capacity (LPD) at Head of 50 mtr

Operating Head Range M

Maximum Current(A)

Voltage Range (V)

Type-AC OPR DC Pump Set

PV Array Rating in Watts Peak (Wp)

7.5 HP BLDC Pump

Pump-RYL 70 / 100 / 150

RYL MT 7.5

5.0 / 5.5

70 MTR

101250 LPD

100 MTR

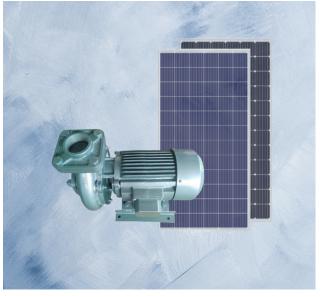
17.A

250 to 800 VDC

BLDC

7.5 HP DC SOLAR

Monoblock Pump Set



Monoblock Pump 2800 RPM Motor with High Discharge

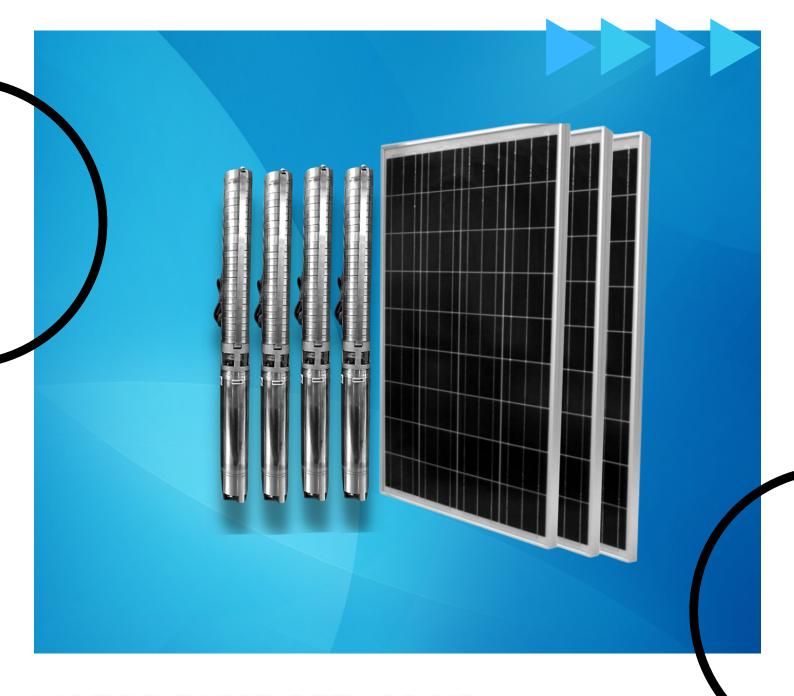
Specifications	7.5 HP Surface Pump	
HP	7.5	
kW	5.5	
Shut of Dynamic Head	45 m	
LPD (from total Head of	269000L	
30 mtr)		
Outlet	50 mm	
Suction	65 mm	
PV Input	>6750 W	

"PowerPoint tracking and maximize the use of solar energy. And will automatically regulate output frequency according to sun radiance intensity, maximum realize MPPT tracking function."

01	Model No	RIPL70510
02	Voltage Range	250-800 VDC
03	Power Range	7.5 KW
04	Current Rating (A)	17.A







MOTOR PUMP SET - 10 HP

Specifications

Pump Model No

Motor Model No

Motor Rating (HP/kW)

Total Head, M at the Duty Point

Capacity (LPD) at Head of 50 mtr

Operating Head Range M

Maximum Current(A)

Voltage Range (V)

Type-AC OPR DC Pump Set

PV Array Rating in Watts Peak (Wp)

10 HP BLDC Pump

Pump-RYL 70 / 100 / 150

RYL MT 10

10 / 7.5

70 MTR

135000 LPD

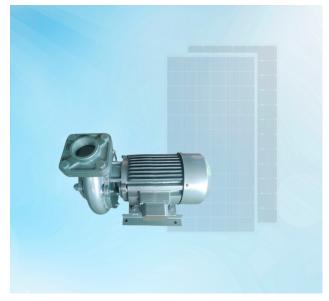
100 MTR

17.A

350 to 800 VDC

BLDC

Monoblock Pump Set



Monoblock Pump 2800 RPM Motor with High Discharge

Specifications	10 HP Surface Pump	
HP	10	
kW	7.5	
Shut of Dynamic Head	45 m	
LPD (from total Head of	269000L	
30 mtr)		
Outlet	50 mm	
Suction	65 mm	
PV Input	>6750 W	

"IP65 Solar pump controller is an important part of the PV pump system, which converts the input DC from PV array into AC for driving pump"

01	Model No	RIIPL70510
02	Voltage Range	350-800 VDC
03	Power Range	7.5 KW
04	Current Rating (A)	17.A

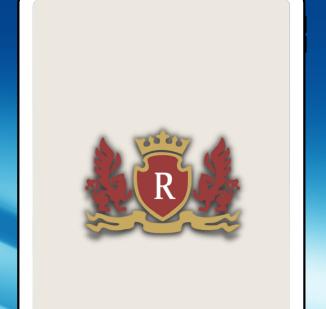




Notification Body















ISO 9001:2015 Certificate No: 1019QU08 ISO 14001:2015 Certificate No: 1019EP03

Bureau Of India Standards [Licence No: R-58000051] Certified by Underwriter Laboratories MNRE approved

Certificate of compliance Quality Veritas Certification Limited [certificate No: 4261]

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We Believe In Giving Only The Best To Our Clients

And Never Compromise On the Quality Of Our

Products And Services.



Get in touch with us

Royal India is committed to creating a Better, Brighter and Cleaner tomorrow!

email: sales@royalinstrument.in

website: www.royalinstrument.in



We only use high-quality raw materials.

We employee people of all backgrounds.

We use eco-friendly items for packaging.





Make a Sustainable Switch, with ROYAL INDIA Solar Pumps.

Become a Distributor!