

Hosola Plus Series Power Optimiser



High Efficiency

- Up to 25% more energy and superior efficiency (99.5%)
- Efficiency step-up and step-down processing modules can flexibly configure PV panel structure
- Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading

High Safety Standards

- Module-level voltage shutdown for installer and firefighter safety
- Comprehensive protection functions like protection against overheat
- IP65 design, reliable under harsh weather condition
- 25 years lifetime

Advanced Communication Technology

- WiFi/RS485 accessible
- Real-time yield monitoring of the optimiser and each panel, alarming in time

Flexible Installation

- Installation for either newly setup or existed power station, supports multiple installation methods
- Simplifies system design by eliminating power optimiser selection process
- Portable design, fast installation
- Operation with any inverter and no additional hardware or addition of Hosola inverter for added benefits



TÜV SÜD certification,
Conform the corresponding European standards.

Hosola Power Optimiser Technical Data

Safety
StandardsHigh
QualityHigh
EfficiencyLow
Noise

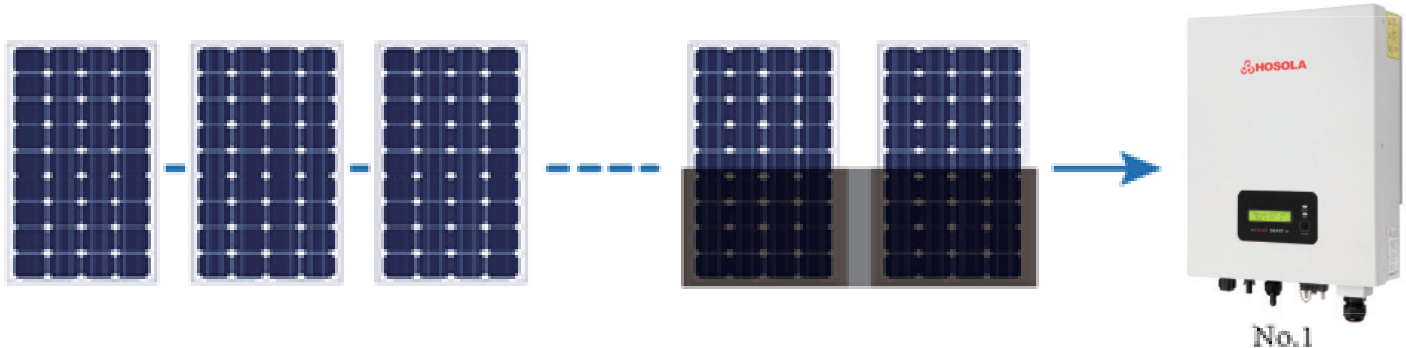
Model	Plus 300	Plus 350	Plus 600-D	Plus 700-D
Input Data				
Max.DC Input Power (W)	300	350	600	700
Max. DC Voltage [V]	60	60	60	60
Operating Voltage Range [V]	14-60	14-60	14-60	14-60
MPPT Voltage Range [V]	16-50	16-50	16-50	16-50
Max. DC current [A]	10	10	10	10
No. of MPPT	1	1	1	1
Output data				
Rated AC power [W]	300	350	600	700
Max. AC Power [W]	300	350	600	700
Max. AC Current [A]	11	11	11	11
Rated AC Voltage Range [V]	0-60	0-60	0-120	0-120
Efficiency				
Max. efficiency	99.5%	99.5%	99.5%	99.5%
Euro efficiency	98.5%	98.5%	98.5%	98.5%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%
General data				
Weight [g]	550	550	550	550
Dimension (W*H*D) [mm]	115*106*22	115*106*22	115*106*22	115*106*22
Operating Temperature Range[° C/° F]	-40°C~+85°C			
IP protection type	IP 65			
Isolation type	Transformerless			
Cooling	Natural cooling			
Communication	RWiFi (Optional)			
Standard warranty (years)	5/10 (Optional)			
Certificates	CQC / TUV / CSA			



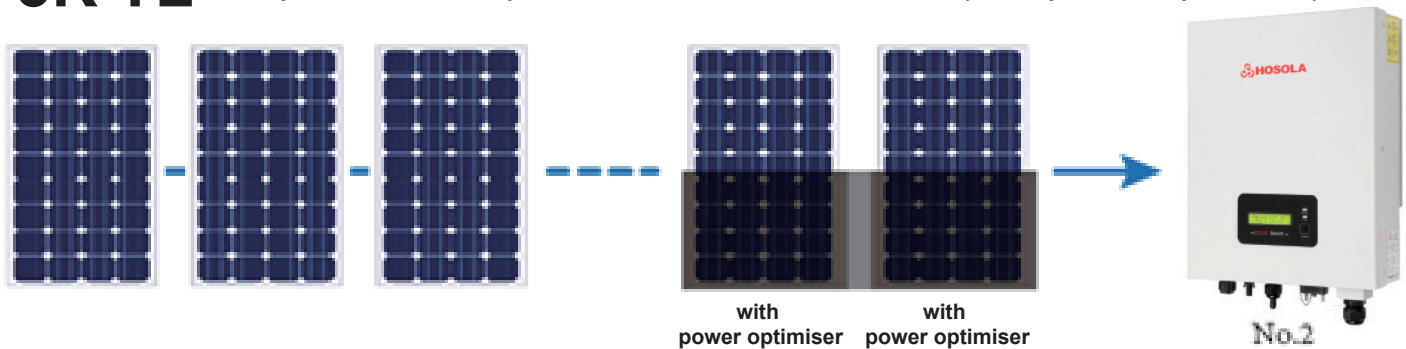
Hosola Power Optimiser Module Embedded Solution



3K TL 10 pieces 280W panels connected in series (without power optimiser)



3K TL 10 pieces 280W panels connected in series (with power optimiser)



Conditions	Panels before shadowing		Panels after shadowing	
	Series current (A)	Instantaneous power (W)	Series current (A)	Instantaneous power (W)
No.1 without power optimiser	6.4	2241	3.2	1120
No.2 with power optimiser	6.4	2201	6.4	2016

Conclusion:

When solar panels face shadow or the angle is diverse, adding power optimiser can effectively improve generating capacity, and the system generating amount is increased by 80%. Compared with micro inverter, the price of power optimiser is 40% lower.