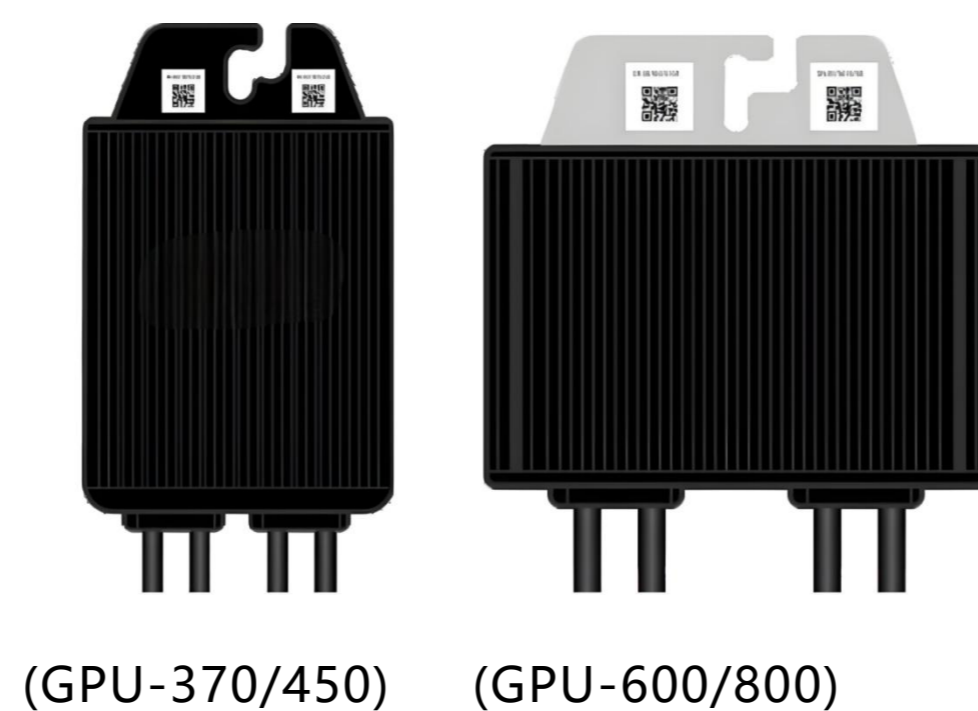


GINPON PHOTOVOLTAIC PRODUCT

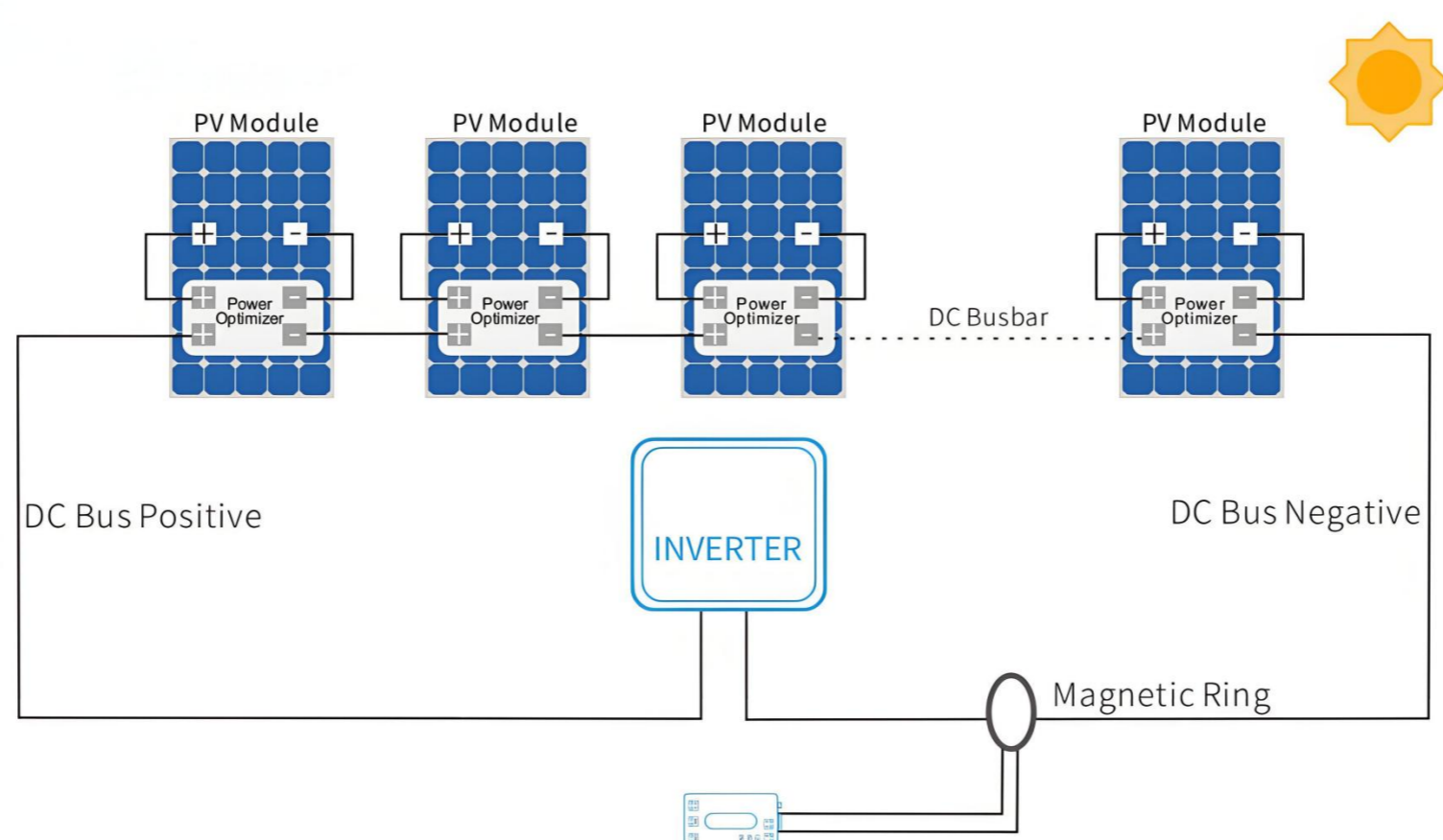
PV MODULE LEVEL OPTIMIZER

PRODUCT OVERVIEW








For traditional photovoltaic power generation systems, power loss of PV module arrays is unavoidable due to unforeseen factors such as shadows, breakage and orientation. The module-level optimizer developed by Ginpon adopts the MPPT (Maximum Power Point Tracking) algorithm to control and achieve maximum power transfer, which significantly improves the overall power generation level of the PV power plant and increases the power generation revenue in different power plant scenarios. At the same time, the module-level shutdown, monitoring, and abnormality alarm functions can monitor the module operation status in real time, eliminating the potential danger of electric shock and safeguarding personnel safety, combining both safety and efficiency, and helping to improve the comprehensive benefits of PV power plants.



TOPOLOGICAL MAP



FUNCTIONAL MODULE

						
Real-time data collection	Intelligent diagnostic warning	Remote online upgrade	Remote precision shutdown	Emergency safety shutdown	High-speed module-level MPPT	Intelligent network operation and maintenance

KEY ADVANTAGES

Highly efficient optimization, improving system efficiency	Adaptable to all type modules, easy of using
Fully aware of module operating condition, rapid elimination of risks	Real time module level monitoring&controlling, intelligent maintenance &operation

TECHNICAL PARAMETERS

Product model		GPU-370	GPU-450	GPU-600	GPU-800
Input Parameter	Rated input power	370W	450W	600W	800W
	Max input voltage	50V	50V	80V	80V
	Max input current	12A	15A	16A	20A
	Max input	15A	17A	18A	23A
	Short-circuit current	99.5%	99.5%	99.5%	99.5%
	Max efficiency MPPT voltage range	12-50V	12-50V	12-80V	12-80V
Output Parameter	Max output power	370W	450W	600W	800W
	Max output voltage	50V	50V	80V	80V
	Max output current	12A	15A	16A	20A
	Bypassed output	YES	YES	YES	YES
	Output shutdown voltage	0V	0V	0V	0V
Communication Method	Communication method	HPLC			
Safety Certification	Safety	CQC:CQC3302-2010			
		CGC:NB/T 42143-2018			
	EMC	IEC/EN 62109-1			
IEC/EN 61000-6-1/-2/-3/-4					
General Parameters	Sizes	120mm(Length)x75mm(Width) x25mm(Thickness)		112mm(Length)x88mm(Width) x27mm(Thickness)	
	Weight(with cable)	<0.5kg		<0.9kg	
	Input/output terminals	MC4/Compatible with MC4			
	Input/output line length	Customized			
	Operating temperature	-40~+85℃			
	Humidity range	0~100%			
	Protection level	IP68			
	Max system voltage	1500V			
Noises	≤35 dB(A)				