



	INS24-30	INS24-40	INS24-50	INS24-60	
Product Category					
MPPT efficiency	99.50%				
Standby power	1W~1.8W				
Heat-Dissipating method	All aluminum alloy shell self-heating				
Battery system	12V System : 9VDC~15VDC 24V System : 18VDC~30VDC				
Settable lithium-ion battery system	8VDC~30VDC				
Input Characteristics					
Max.PV input voltage(Voc)	100VDC		150VDC		
Min.Vmpp Voltage	Battery voltage + 2V				
Start-up charging voltage	Battery voltage + 3V				
Low input voltage protection	Battery voltage + 2V				
Over voltage protection / Recovery	100VDC/95VDC		150VDC/145VDC		
Reted PV Power	12V system	420W	560W	700W	840W
	24V system	840W	1120W	1400W	1680W
	Li-ion	432W~864W	576W~1152W	720W~1440W	864W~1728W
Charge Characteristics					
Activation for lithium battery	Optional				
Battery types	Sealed(SEL),Gel(GEL),Flooded(FLD),User-defined(USER) AGM , LiFePO4 (4 Strings / 7 Strings / 8 strings) , Ternary lithium battery (3 Strings / 6 strings / 7 strings) , Custom lithium ion battery (Lit)				
Rated charge current	30A	40A	50A	60A	
Temperature compensation	-3mV/°C/2V				
Charge method	3 stages: CC (Constant current) - CV (Constant voltage) - CF (Floating charge)				
Output voltage stability accuracy	±0.2V				
LOAD Characteristics					
Load voltage	Same as battery voltage				
Rated load current	20A		30A		
Load control mode	On/Off , PV voltage control mode, Dual-time control mode, PV + Time control mode				
Low voltage protection	10.5V (default), 11V (restored), settable				
Setting method	PC software / APP / Controller				
Display & Communication					
Display	Blue OLED display				
Communication	Dual RJ45 port / RS485 / support PC software monitoring / support WiFi module for APP cloud monitoring / support centralized parallel monitoring				
Other Parameters					
Protections	Input & output over-volt / low-voltage protection, reverse polarity protection, over-heating protection, battery shedding protection etc.				
Operating ambient temperature	-20°C~+50°C				
Storage temperature	-40°C~+75°C				
IP(Ingress protection)	IP42				
Altitude	0~3000m				
Max. connection size	28mm ²				
Recommended breaker	≥63A	≥63A	≥100A	≥100A	
Net Weight/Gross Weight (kg)	1.5 / 1.9		2.2 / 2.6		
Product size /Packing size (mm)	220x148x64/275x176x70		245x170x69/300x198x75		