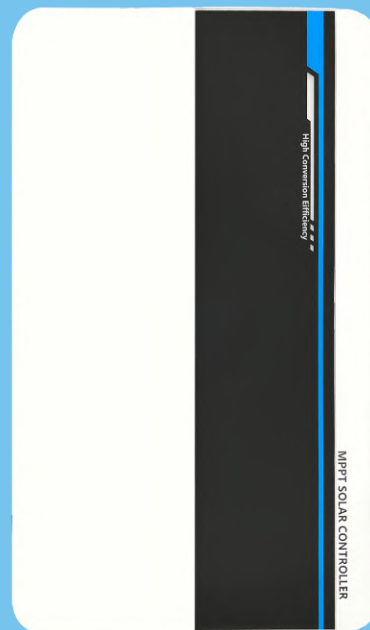


Galaxy Series

MPPT Solar charging controller

CE FC RoHS



High efficiency

- MPPT efficiency 99.5%



Stable operation

- Support Parallel Connection

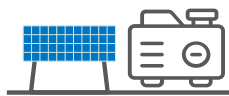


Intelligent compatibility

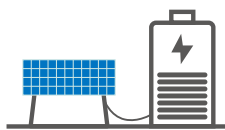
- Built in Bluetooth
- Suitable For all kinds of Batteries
- Support remote monitoring of PC and APP
- Support Dual RS485 communication
- Forced air cooling
- Multiple protection functions, overvoltage and overcurrent, etc
- Can be customized: 120V, 144V, 180V and other voltage level specifications controller
- Supports wall mounting or standard cabinet installation



Off-grid power generation system



Photovoltaic power station



Photovoltaic energy storage system



Project



Intelligent Microgrid

Galaxy Series

Product Specification 1

Galaxy Series	GS96L60	GS96L80	GS96L100
Controller type	Solar Charge Controller with Maximum Power Point Tracking (MPPT)		
Standby power consumption	4W~5W		
Maximum Power Point Tracking Efficiency	≥99.5%		
Cooling method	forced air cooling		
Lead-acid battery system voltage range	72V~120V		
Lithium-ion battery system	96V		
Input characteristics			
Maximum input voltage(Voc.Max)	430VDC		
Minimum MPPT voltage (Vmppt.min)	Vbat + 10V		
Start charging voltage	Vbat + 20V		
Input overvoltage protection/Recovery voltage	430VDC/425VDC		
Rated input power(W)	6240	8320	10400
Charging characteristics			
Applicable battery type	Common lead-acid batteries (SEL, GEL, FLD) and custom lead-acid batteries, custom lithium iron phosphate, ternary lithium or other lithium-ion batteries		
Rated charging current	60A	80A	100A
Charging method	Lead Acid Battery: CC (Quick Charge)-CV (Constant Voltage Charge)-CF (Float Charge) Li-Ion Battery: CC (Quick Charge)-CV (Constant Voltage Charge)		
Load characteristics			
Load voltage	Same as battery voltage		
Rated load current	60A	80A	100A
Load control mode	On/Off, Light Control Mode, Dual Time Period Timing Control Mode, Fixed Time Light Control Mode		
Display & Communication			
Display	Working status indicator or MH-M80 meter		
Communication	Dual RJ45 interface/RS485 bus/host computer software/built-in Bluetooth/WIFI module mobile phone cloud monitoring (optional)		
protocol	Standard Modbus protocol & non-standard proprietary protocol		
Other features			
How to set	PC softwar / APP /Meter		
Protections	Input / output overvoltage and undervoltage protection / input reverse connection protection / battery anti reverse connection protection / overheating protection / overcharge protection		
Operating ambient temperature	-20°C~+55°C		
Storage temperature	-40°C~+70°C		
IP(Ingress protection)	IP21		
Recommended breaker for battery	≥80A	≥100A	≥125A
Net weight	17kg		
Gross weight	23.5kg		
Product Size	535*313*188MM		
Package dimensions	636*413*288MM(wooden box)		

Galaxy Series

Product Specification 2

Galaxy Series	GS120L60	GS120L80	GS120L100
Controller type	Solar Charge Controller with Maximum Power Point Tracking (MPPT)		
Standby power consumption	4W~5W		
Maximum Power Point Tracking Efficiency	≥99.5%		
Cooling method	forced air cooling		
Lead-acid battery system voltage range	90V~150V		
Lithium-ion battery system	120V		
Input characteristics			
Maximum input voltage(Voc.Max)	430VDC		
Minimum MPPT voltage (Vmppt.min)	Vbat + 10V		
Start charging voltage	Vbat + 20V		
Input overvoltage protection/Recovery voltage	430VDC/425VDC		
Rated input power(W)	7800	10400	13000
Charging characteristics			
Applicable battery type	Common lead-acid batteries (SEL, GEL, FLD) and custom lead-acid batteries, custom lithium iron phosphate, ternary lithium or other lithium-ion batteries		
Rated charging current	60A	80A	100A
Charging method	Lead Acid Battery: CC (Quick Charge)-CV (Constant Voltage Charge)-CF (Float Charge) Li-Ion Battery: CC (Quick Charge)-CV (Constant Voltage Charge)		
Load characteristics			
Load voltage	Same as battery voltage		
Rated load current	60A	80A	100A
Load control mode	On/Off, Light Control Mode, Dual Time Period Timing Control Mode, Fixed Time Light Control Mode		
Display & Communication			
Display	Working status indicator or MH-M80 meter		
Communication	Dual RJ45 interface/RS485 bus/host computer software/built-in Bluetooth/WIFI module mobile phone cloud monitoring (optional)		
protocol	Standard Modbus protocol & non-standard proprietary protocol		
Other features			
How to set	PC softwar / APP /Meter		
Protections	Input / output overvoltage and undervoltage protection / input reverse connection protection / battery anti reverse connection protection / overheating protection / overcharge protection		
Operating ambient temperature	-20°C~+55°C		
Storage temperature	-40°C~+70°C		
IP(Ingress protection)	IP21		
Recommended breaker for battery	≥80A	≥100A	≥125A
Net weight	17kg		
Gross weight	23.5kg		
Product Size	535*313*188MM		
Package dimensions	636*413*288MM(wooden box)		

Galaxy Series

Product Specification 3

Galaxy Series	GS144L60	GS144L80	GS180L60	GS180L80	GS180L100
Controller type	Solar Charge Controller with Maximum Power Point Tracking (MPPT)				
Standby power consumption	4W~5W				
Maximum Power Point Tracking Efficiency	≥99.5%				
Cooling method	forced air cooling				
Lead-acid battery system voltage range	108V~180V		135V~225V		
Lithium-ion battery system	144V		180V		
Input characteristics					
Maximum input voltage(Voc.Max)	430VDC				
Minimum MPPT voltage (Vmppt.min)	Vbat + 10V				
Start charging voltage	Vbat + 20V				
Input overvoltage protection/Recovery voltage	430VDC/425VDC				
Rated input power(W)	9360	12480	11700	15600	19500
Charging characteristics					
Applicable battery type	Common lead-acid batteries (SEL, GEL, FLD) and custom lead-acid batteries, custom lithium iron phosphate, ternary lithium or other lithium-ion batteries				
Rated charging current	60A	80A	60A	80A	100A
Charging method	Lead Acid Battery: CC (Quick Charge)-CV (Constant Voltage Charge)-CF (Float Charge) Li-Ion Battery: CC (Quick Charge)-CV (Constant Voltage Charge)				
Load characteristics					
Load voltage	Same as battery voltage				
Rated load current	60A	80A	60A	80A	100A
Load control mode	On/Off, Light Control Mode, Dual Time Period Timing Control Mode, Fixed Time Light Control Mode				
Display & Communication					
Display	Working status indicator or MH-M80 meter				
Communication	Dual RJ45 interface/RS485 bus/host computer software/built-in Bluetooth/WIFI module mobile phone cloud monitoring (optional)				
protocol	Standard Modbus protocol & non-standard proprietary protocol				
Other features					
How to set	PC softwar / APP /Meter				
Protections	Input / output overvoltage and undervoltage protection / input reverse connection protection / battery anti reverse connection protection / overheating protection / overcharge protection				
Operating ambient temperature	-20°C~+55°C				
Storage temperature	-40°C~+70°C				
IP(Ingress protection)	IP21				
Recommended breaker for battery	≥80A	≥100A	≥80A	≥100A	≥120A
Net weight	17kg				
Gross weight	23.5kg				
Product Size	535*313*188MM				
Package dimensions	636*413*288MM(wooden box)				

Galaxy Series

Product Specification 4

Galaxy Series	GS192L50	GS192L60	GS216L50	GS216L60	GS240L50	GS240L60
Controller type	Solar Charge Controller with Maximum Power Point Tracking (MPPT)					
Standby power consumption	4W~5W					
Maximum Power Point Tracking Efficiency	≥99.5%					
Cooling method	forced air cooling					
Lead-acid battery system voltage range	144V~240V		162V~270V		180V~300V	
Lithium-ion battery system	192V		216V		240V	
Input characteristics						
Maximum input voltage(Voc.Max)	430VDC					
Minimum MPPT voltage (Vmppt.min)	Vbat + 10V					
Start charging voltage	Vbat + 20V					
Input overvoltage protection/Recovery voltage	430VDC/425VDC					
Rated input power(W)	10400	12480	11700	14040	13000	15600
Charging characteristics						
Applicable battery type	Common lead-acid batteries (SEL, GEL, FLD) and custom lead-acid batteries, custom lithium iron phosphate, ternary lithium or other lithium-ion batteries					
Rated charging current	50A	60A	50A	60A	50A	60A
Charging method	Lead Acid Battery: CC (Quick Charge)-CV (Constant Voltage Charge)-CF (Float Charge) Li-Ion Battery: CC (Quick Charge)-CV (Constant Voltage Charge)					
Load characteristics						
Load voltage	Same as battery voltage					
Rated load current	50A	60A	50A	60A	50A	60A
Load control mode	On/Off, Light Control Mode, Dual Time Period Timing Control Mode, Fixed Time Light Control Mode					
Display & Communication						
Display	Working status indicator or MH-M80 meter					
Communication	Dual RJ45 interface/RS485 bus/host computer software/built-in Bluetooth/WIFI module mobile phone cloud monitoring (optional)					
protocol	Standard Modbus protocol & non-standard proprietary protocol					
Other features						
How to set	PC softwar / APP /Meter					
Protections	Input / output overvoltage and undervoltage protection / input reverse connection protection / battery anti reverse connection protection / overheating protection / overcharge protection					
Operating ambient temperature	-20°C~+55°C					
Storage temperature	-40°C~+70°C					
IP(Ingress protection)	IP21					
Recommended breaker for battery	≥80A					
Net weight	17kg					
Gross weight	23.5kg					
Product Size	535*313*188MM					
Package dimensions	636*413*288MM(wooden box)					

Galaxy Series

Product Specification 5

Galaxy Series	GS192H100	GS216H80	GS216H100	GS240H80	GS240H100
Controller type	Solar Charge Controller with Maximum Power Point Tracking (MPPT)				
Standby power consumption	4W~5W				
Maximum Power Point Tracking Efficiency	≥99.5%				
Cooling method	forced air cooling				
Lead-acid battery system voltage range	144V~240V	162V~270V		180V~300V	
Lithium-ion battery system	192V	216V		240V	
Input characteristics					
Maximum input voltage(Voc.Max)	660VDC				
Minimum MPPT voltage (Vmppt.min)	Vbat + 10V				
Start charging voltage	Vbat + 20V				
Input overvoltage protection/Recovery voltage	660VDC/655VDC				
Rated input power(W)	20800	18720	23400	20800	26000
Charging characteristics					
Applicable battery type	Common lead-acid batteries (SEL, GEL, FLD) and custom lead-acid batteries, custom lithium iron phosphate, ternary lithium or other lithium-ion batteries				
Rated charging current	100A	80A	100A	80A	100A
Charging method	Lead Acid Battery: CC (Quick Charge)-CV (Constant Voltage Charge)-CF (Float Charge) Li-Ion Battery: CC (Quick Charge)-CV (Constant Voltage Charge)				
Load characteristics					
Load voltage	Same as battery voltage				
Rated load current	100A	80A	100A	80A	100A
Load control mode	On/Off, Light Control Mode, Dual Time Period Timing Control Mode, Fixed Time Light Control Mode				
Display & Communication					
Display	Working status indicator or MH-M80 meter				
Communication	Dual RJ45 interface/RS485 bus/host computer software/built-in Bluetooth/WIFI module mobile phone cloud monitoring (optional)				
protocol	Standard Modbus protocol & non-standard proprietary protocol				
Other features					
How to set	PC softwar / APP /Meter				
Protections	Input / output overvoltage and undervoltage protection / input reverse connection protection / battery anti reverse connection protection / overheating protection / overcharge protection				
Operating ambient temperature	-20°C~+55°C				
Storage temperature	-40°C~+70°C				
IP(Ingress protection)	IP21				
Recommended breaker for battery	≥125A	≥100A	≥125A	≥100A	≥125A
Net weight	23kg				
Gross weight	30kg				
Product Size	521*340*226MM				
Package dimensions	621*440*326MM (wooden box)				

Galaxy Series

Product Specification 6

Galaxy Series	GS360H80	GS384H60	GS384H80	GS384H100	GS480H60	GS480H80
Controller type	Solar Charge Controller with Maximum Power Point Tracking (MPPT)					
Standby power consumption	4W~5W					
Maximum Power Point Tracking Efficiency	99.50%					
Cooling method	forced air cooling					
Lead-acid battery system voltage range	270V~450V	288V~480V			360V~600V	
Lithium-ion battery system	360V	384V			480V	
Input characteristics						
Maximum input voltage(Voc.Max)	850VDC					
Minimum MPPT voltage (Vmppt.min)	Vbat + 10V					
Start charging voltage	Vbat + 20V					
Input overvoltage protection/Recovery voltage	850VDC/845VDC					
Rated input power(W)	31200	24960	33280	41600	31200	41600
Charging characteristics						
Applicable battery type	Common lead-acid batteries (SEL, GEL, FLD) and custom lead-acid batteries, custom lithium iron phosphate, ternary lithium or other lithium-ion batteries					
Rated charging current	80A	60A	80A	100A	60A	80A
Charging method	Lead Acid Battery: CC (Quick Charge)-CV (Constant Voltage Charge)-CF (Float Charge) Li-Ion Battery: CC (Quick Charge)-CV (Constant Voltage Charge)					
Load characteristics						
Load voltage	Same as battery voltage					
Rated load current	Measurable range: 0~100A					
Load control mode	Normally open					
Display & Communication						
Display	Working status indicator or MH-M80 meter					
Communication	Dual RJ45 interface/RS485 bus/host computer software/built-in Bluetooth/WIFI module mobile phone cloud monitoring (optional)					
protocol	Standard Modbus protocol & non-standard proprietary protocol					
Other features						
How to set	PC softwar / APP /Meter					
Protections	Input / output overvoltage and undervoltage protection / input reverse connection protection / battery anti reverse connection protection / overheating protection / overcharge protection					
Operating ambient temperature	-20°C~+55°C					
Storage temperature	-40°C~+70°C					
IP(Ingress protection)	IP21					
Recommended breaker for battery	≥100A	≥80A	≥100A	≥125A	≥80A	≥100A
Net weight	23kg			—		
Gross weight	30kg			—		
Product Size	521*340*226MM			580*343*227mm		
Package dimensions	621*440*326MM (wooden box)			680*443*327mm (wooden box)		