XTRA POWER MPPT

Solar Charge Controller



CHARACTERISTIC:

- 1. MPPT efficiency >= 99.5%
- 2. Built in Bluthtooth
- 3. Suitable for all kinds of Batteries
- 4. Support remote monitoring of PC and APP
- 5. Support Dual RS485 communications
- 6. Intelligent air cooling
- 7. Support Parallel Connection
- 8. Multiple protections for overvoltage, overcurrent etc.

MILKYWAY Series

Applicable scenarios









Photovoltaic power station

Project

Photovoltaic energy storage system

Intelligent Microgrid

MILKYWAY Series	GS96L60	GS96L80	GS96L100		
Product Category					
Controller type	Solar Charge Controller with Maximum Power Point Tracking (MPPT)				
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, FL	D) and custom lead-acid batteries, custom other lithium-ion batteries	lithium iron phosphate, ternary lithium or		
Rated charging current	60A	80A	100A		
charging method	Lead Acid Battery: CC (Quick Charge)-CV	/ (Constant Voltage Charge)-CF (Float Char (Constant Voltage Charge)	ge) Li-Ion Battery: CC (Quick Charge)-CV		
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	W	orking status indicator or MH-M80 met	er		
communication	Dual RJ45 interface/RS485 bus/ho	st computer software/built-in Bluetooth monitoring (optional)	/WIFI module mobile phone cloud		
protocol	Standard Mo	odbus protocol & non-standard propriet	ary 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 / overcharge protection				
Operating ambient temperature	-20℃~+50℃				
Storage temperature	-40°C~+75°C				
IP(Ingress protection)	IP21				
Recommended breaker for battery	≥80A	≥100A	≥125A		
net weight		17kg			
Gross weight		23.5kg			
Product Size	313*540*187MM				
Package dimensions	635*430*295MM(wooden box)				





Applicable scenarios









Photovoltaic power station

Project

Photovoltaic energy storage system

Intelligent Microgrid

MILKYWAY Series

Product item	GS120L60	GS120L80	GS120L100			
Product Category						
Controller type	Solar Charge Controller with Maximum Power Point Tracking (MPPT)					
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		SEL, GEL, FLD) and custom lead-acion, ternary lithium or other lithium-io				
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, Dua	al Time Period Timing Control Mode	e, 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 Mod	bus protocol & non-standard propr	rietary 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℃~+50℃					
Storage temperature	-40℃~+75℃					
IP(Ingress protection)		IP21				
Recommended breaker for battery	≥80A	≥100A	≥125A			
net weight		17kg				
Gross weight		23.5kg				
Product Size	313*540*187MM					
Package dimensions	635*430*295MM(wooden box)					

Applicable scenarios









Photovoltaic power station

Project Photovoltaic energy storage system

Intelligent Microgrid

Product item	GS144L60	GS144L80	GS180L60	GS180L80		
Product Category						
Controller type	Solar Charge Controller with Maximum Power Point Tracking (MPPT)					
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	14	14V	18	30V		
Input characteristics						
Maximum input voltage(Voc.Max)		430\	/DC			
Minimum MPPT voltage (Vmpptmin)		Vbat -	+ 10V			
start charging voltage		Vbat -	+ 20V			
Input overvoltage protection/recovery voltage		430VDC/	/425VDC			
Rated input power(W)	9360	12480	11700	15600		
Charging characteristics						
Applicable battery type	Common lead-acid batte	ries (SEL, GEL, FLD) and custo ternary lithium or othe		m lithium iron phosphate,		
Rated charging current	60A	80A	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	60A	80A	60A	80A		
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	Sta	ndard Modbus protocol & no	n-standard proprietary prot	cocol		
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 / overcharge protection					
Operating ambient temperature	-20°C~+50°C					
Storage temperature	-40°C~+75°C					
IP(Ingress protection)	IP21					
Recommended breaker for battery	≥80A	≥100A	≥80A	≥100A		
net weight		17	kg			
Gross weight		23.5	5kg			
Product Size	313*540*187MM					
Package dimensions	635*430*295MM(wooden box)					





Applicable scenarios









Photovoltaic power station

Project Photovoltaic energy storage system

Intelligent Microgrid

MILKYWAY Series

Product item	GS192L50	GS192L60	GS216L50	GS216L60	GS240L50	GS240L60
Product Category						
Controller type	Solar Charge Controller with Maximum Power Point Tracking (MPPT)					
Maximum Power Point Tracking Efficiency		≥99.5%				
Cooling method			forced a	ir cooling		
Lead-acid battery system voltage range	144V	~240V	162V	~270V	180V-	~300V
Lithium-ion battery system	19	92V	21	6V	24	0V
Input characteristics						
Maximum input voltage(Voc.Max)			430	VDC		
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 le			d custom lead-acio or other lithium-io	l batteries, custom n batteries	lithium iron
Rated charging current	50A	60A	50A	60A	50A	60A
charging method	Lead Acid Batte			Voltage Charge)-C Instant Voltage Ch	CF (Float Charge) L arge)	i-Ion Battery: C
Load characteristics						
load voltage			Same as ba	ttery voltage		
Rated load current	50A	60A	50A	60A	50A	60A
load control mode	On/Off, Light	Control Mode, Du	al Time Period Tin	ning Control Mode	e, Fixed Time Light	Control Mode
Display & Communication						
Display		Wo	rking status indica	ntor or MH-M80 m	eter	
communication	Dual RJ45 interface/RS485 bus/host computer software/built-in Bluetooth/WIFI module mobile phone cloud monitoring (optional)					
protocol		Standard Mod	lbus protocol & no	on-standard propr	ietary 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℃~+50℃					
Storage temperature			-40°C	~+75°C		
IP(Ingress protection)	IP21					
Recommended breaker for battery			≥8≤	30A		
net weight			17	'kg		
Gross weight	23.5kg					
Product Size	313*540*187MM					
Package dimensions	635*430*295MM(wooden box)					

Applicable scenarios









Photovoltaic power station

Project

Photovoltaic energy storage system

Intelligent Microgrid

Product item	GS192H100	GS216H80	GS216H100	GS240H80	GS240H100	
Product Category						
Controller type	Solar Charge Controller with Maximum Power Point Tracking (MPPT)					
Maximum Power Point Tracking Efficiency		99.50%				
Cooling method			forced air cooling			
Lead-acid battery system voltage range	144V~240V	162V-	~270V	180V	~300V	
Lithium-ion battery system	192V	21	6V	24	40V	
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-a	ncid batteries (SEL, GE phosphate, ternar	L, FLD) and custom le y lithium or other lith		stom lithium iron	
Rated charging current	100A	80A	100A	80A	100A	
charging method	Lead Acid Battery: CC (Quick Charge)-CV (Constant Voltage Charge)-CF (Float Charge) Li-lon 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 st	atus 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 pro	tocol & non-standard	d proprietary protoco	ol	
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℃~+50℃					
Storage temperature	-40°C~+75°C					
IP(Ingress protection)			IP21			
Recommended breaker for battery	≥125A	≥100A	≥125A	≥100A	≥125A	
net weight			23kg			
Gross weight	30kg					
Product Size	340*522*222MM					
Package dimensions	620*450*335MM(wooden box)					





Applicable scenarios









Photovoltaic power station

Project Photovoltaic energy storage system

Intelligent Microgrid

MILKYWAY Series

Product item	GS360H80	GS384H80	GS384H100	GS480H60	GS480H80
Product Category					
Controller type	Solar Charge Controller with Maximum Power Point Tracking (MPPT)				
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	38	4V	48	0V
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	33280	41600	31200	41600
Charging characteristics					
Applicable battery type	Common lead-a	•	L, FLD) and custom le ry lithium or other lith		tom lithium iron
Rated charging current	80A	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		S	ame as battery voltag	e	
Rated load current	Measurable range: 0~100A				
load control mode			Normally open		
Display & Communication					
Display		Working st	atus 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 pro	otocol & non-standard	d proprietary protocol	
Other features					
How to set		P	C softwar / APP /Mete	er	
Protections	Input / output overvoltage and undervoltage protection / input reverse connection protection / battery anti reverse connection protection / overheating protection / overcharge protection				
Operating ambient temperature	-20℃~+50℃				
Storage temperature	-40°C~+75°C				
IP(Ingress protection)			IP21		
Recommended breaker for battery	≥100A	≥100A	≥125A	≥80A	≥100A
net weight					
Gross weight					
Product Size	340*585*227MM				
Package dimensions	680*450*335MM(wooden box)				



