

# Growatt SC 4860~48120

- Reverse polarity protection of solar panel and battery
- Wifi/GPRS remote control module(optional)
- BTS for battery compensation
- Multi-stage charging optimizes battery performance



P O W E R  
- I N G  
T O M O -  
R R O W



Datasheet	SC 4860	SC 4880	SC 48100	SC 48120
Solar System Voltage	12V/24V/48V	12V/24V/48V	12V/24V/48V	12V/24V/48V

### Electrical

PV Operating voltage	18~50Vdc@12V 34~100Vdc@24V 60~145Vdc@48V	18~50Vdc@12V 34~100Vdc@24V 60~145Vdc@48V	18~50Vdc@12V 34~100Vdc@24V 60~145Vdc@48V	18~50Vdc@12V 34~100Vdc@24V 60~145Vdc@48V
Max.PV Open circuit Voltage	150Vdc	150Vdc	150Vdc	150Vdc
Max.PV input power	1000W@12V 2000W@24V 4000W@48V	1250W@12V 2500W@24V 5000W@48V	1500W@12V 3000W@24V 6000W@48V	1750W@12V 3500W@24V 7000W@48V
Max.charging current	60A	80A	100A	120A
Self Consumption	2W	2W	2W	2W
MPPT Efficiency	99.5%	99.5%	99.5%	99.5%
Conversion Efficiency	97.5%	97.5%	97.5%	97.5%
Protection	Overload,high voltage, high temperature protection	Overload,high voltage, high temperature protection	Overload,high voltage, high temperature protection	Overload,high voltage, high temperature protection

### Battery Charging

Battery Type	Sealed: AGM, Gel, Flooded,User define	Sealed: AGM, Gel, Flooded,User define	Sealed: AGM, Gel, Flooded,User define	Sealed: AGM, Gel, Flooded,User define
Charging Algorithm	3-stage: Bulk, Absorption, Float, Equalize	3-stage: Bulk, Absorption, Float, Equalize	3-stage: Bulk, Absorption, Float, Equalize	3-stage: Bulk, Absorption, Float, Equalize
Bulk charge voltage	14.1V@12V 28.2V@24V 56.4V@48V User define:48~58.4V	14.1V@12V 28.2V@24V 56.4V@48V User define:48~58.4V	14.1V@12V 28.2V@24V 56.4V@48V User define:48~58.4V	14.1V@12V 28.2V@24V 56.4V@48V User define:48~58.4V
Float charge voltage	13.6V@12V 27.2V@24V 54.4V@48V User define:48~58.4V	13.6V@12V 27.2V@24V 54.4V@48V User define:48~58.4V	13.6V@12V 27.2V@24V 54.4V@48V User define:48~58.4V	13.6V@12V 27.2V@24V 54.4V@48V User define:48~58.4V
Temperature compensation	-5mV/°C /2V with BTS(Optional)	-5mV/°C /2V with BTS(Optional)	-5mV/°C /2V with BTS(Optional)	-5mV/°C /2V with BTS(Optional)

### Communication

Communication Port	USB	USB	USB	USB
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### Mechanical

Net weight	3KG	3.2KG	3.9KG	4.1KG
Gross weight	3.7KG	3.9KG	4.5KG	4.7KG
Dimensions	277*177*99	277*177*99	302*197*99	302*197*99
Packing dimensions	380*270*170	380*270*170	380*270*170	380*270*170
Cooling	Fan cooling	Fan cooling	Fan cooling	Fan cooling
Enclosure	IP20	IP20	IP20	IP20

### Environment

Ambient Temperature	~25~60°C(Derating from 45°C)	~25~60°C(Derating from 45°C)	~25~60°C(Derating from 45°C)	~25~60°C(Derating from 45°C)
Storage Temperature	-40°C~+80°C	-40°C~+80°C	-40°C~+80°C	-40°C~+80°C
Humidity	100% non-condensing	100% non-condensing	100% non-condensing	100% non-condensing