

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 O
T O M O -
R R O W O



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	18~145Vdc@12V 34~145Vdc@24V 60~145Vdc@48V	18~145Vdc@12V 34~145Vdc@24V 60~145Vdc@48V	18~145Vdc@12V 34~145Vdc@24V 60~145Vdc@48V	18~145Vdc@12V 34~145Vdc@24V 60~145Vdc@48V
Max.PV Open circuit Voltage	150Vdc	150Vdc	150Vdc	150Vdc
Max.PV input power	4000W	5000W	6000W	7000W
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,Lithium,User define	Sealed: AGM, Gel, Flooded,Lithium,User define	Sealed: AGM, Gel, Flooded,Lithium,User define	Sealed: AGM, Gel, Flooded,Lithium,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	3KG	4KG	4KG
Gross weight	4KG	4KG	5KG	5KG
Dimensions	290*180*90	290*180*90	300*183*90	300*183*90
Packing dimensions	330*250*145	330*250*145	375*255*175	375*255*175
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