

Growatt SPH3000~6000

- 2 MPPTs
- IP65 & Natural cooling
- Workmodes programmable
- Supports export limitation
- Online Smart Service



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



www.ginverter.com

Datasheet	SPH3000	SPH3600	SPH4000	SPH4600	SPH5000	SPH6000
Input data(PV)						
Max. recommended PV power (for module STC)	6600W	6600W	6600W	8000W	8000W	8000W
Max. DC voltage	550V					
Start voltage	150V					
MPP voltage range	150V-550V /360V					
No. of MPP trackers	2					
No. of PV strings per MPP tracker	1					
Max. input current per MPP tracker	12A					
Max. short-circuit current per MPP tracker	15A					
Output data(AC)						
AC nominal power	3000W	3680W	4000W	4600W	4999W	6000W
Max. AC apparent power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA
Nominal AC voltage (range*)	230V					
AC grid frequency (range*)	50Hz/60Hz (45Hz-55Hz/55Hz-65Hz)					
Max. output current	16A	16A	22A	22A	22A	27A
Adjustable power factor	0.8leading...0.8lagging					
THDI	<3%					
AC grid connection type	Single phase					
Battery data (DC)						
Battery voltage range	42~59V					
Max charging and discharging current	66A					
Continuous charging and discharging power	3000W					
Type of battery	Lithium /Lead-acid					
Backup power(AC)						
Max. AC output power	3000W					
Max. AC apparent power	3000VA					
Max. output current	16A					
Nominal AC output voltage	230Vac					
Nominal AC output frequency	50/60HZ					
THDv	<3%					
Switch time	0.5S					
Efficiency						
MAX. efficiency	97.5%	97.5%	97.5%	97.6%	97.6%	97.7%
European efficiency	97.0%	97.0%	97.0%	97.1%	97.1%	97.1%
Protection devices						
DC switch	yes					
DC reverse polarity protection	yes					
AC/DC surge protection	yes					
Battery reverse protection	yes					
AC short-circuit protection	yes					
Ground fault monitoring	yes					
Grid monitoring	yes					
Anti-islanding protection	yes					
Residual-current monitoring unit	yes					
Insulation resistance monitoring	yes					
General data						
Dimensions (W / H / D)	450/560/180mm					
Weight	27kg					
Operating temperature range	-25°C ... +60°C					
Noise emission (typical)	≤ 25 dB(A)					
Nighttime power consumption	< 12 W					
Topology	transformerless					
Cooling	Natural					
Protection degree	IP65					
Relative humidity	0~100%					
Altitude	2000m					
DC connection	MC4/H4(opt)					
AC connection	Connector					
Display	LCD+LED					
Interfaces: RS232/RS485/CAN/USB	yes					
Monitor : RF/WIFI/GPRS	opt					
Warranty: 5 years / 10 years	yes / opt					
CE, IEC62109, G98/G99, VDE0126-1-1, AS4777, AS/NZS 3100, CEI 0-21, VDE-AR-N4105, UTE C 15-712EN50438, EN50549, IEC 61727, IEC 62116, C10/11, UNE217007, UNE 206007, PO12.2						