

Growatt SPF 2000~5000TL HVM

- Integrated MPPT charge controller
- Configurable grid or solar input priority
- Optional WIFI/ GPRS remote monitoring
- Parallel for scalability



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

Growatt
powering tomorrow

www.ginverter.com



Johan van Rensburg

Director & Sales

Cell: 074 580 1914

Email: sales@solarforce-energy.co.za

Skype: Jonnyj3

Datasheet	SPF 2000TL HVM	SPF 3000TL HVM	SPF 3000TL HVM-48	SPF 4000TL HVM	SPF 5000TL HVM
Battery voltage	24VDC	24VDC	48VDC	48VDC	48VDC

INVERTER OUTPUT

RATED POWER	2000VA/ 2000W	3000VA/ 3000W	3000VA/ 3000W	4000VA/ 4000W	5000VA/ 5000W
Parallel Capability	No	No	No	Yes, 6 units	Yes, 6 units
AC Voltage Regulation (Battery Mode)	230VAC $\pm$ 5% @ 50/60Hz	230VAC $\pm$ 5% @ 50/60Hz	230VAC $\pm$ 5% @ 50/60Hz	230VAC $\pm$ 5% @ 50/60Hz	230VAC $\pm$ 5% @ 50/60Hz
Surge Power	4000VA	6000VA	6000VA	8000VA	10000VA
Efficiency (Peak)	93%	93%	93%	93%	93%
Waveform	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave
Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)				

SOLAR CHARGER

Maximum PV Array Power	1000W	1000W	2400W	4500W	4500W
MPPT Range @ Operating Voltage	30VDC ~ 80VDC	30VDC ~ 80VDC	60VDC ~ 115VDC	60VDC ~ 115VDC	60VDC ~ 115VDC
Maximum PV Array Open Circuit Voltage	100VDC	100VDC	145VDC	145VDC	145VDC
Maximum Solar Charge Current	50A	50A	40A	80A	80A
Maximum Efficiency	97%	97%	97%	97%	97%
Standby Power Consumption	2 W	2 W	2 W	2 W	2 W

AC CHARGER

Charge Current	30A	30A	15A	60A	60A
AC Input Voltage	230 VAC	230 VAC	230 VAC	230 VAC	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)				
Frequency Range	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)

PHYSICAL

Dimension (D/W/H) in mm	120/315/390	120/315/390	120/315/390	130/350/455	130/350/455
Net Weight (kgs)	7	8	8	14.5	14.5

OPERATING ENVIRONMENT

Humidity	5% to 95% Relative Humidity(Non-condensing)	5% to 95% Relative Humidity(Non-condensing)	5% to 95% Relative Humidity(Non-condensing)	5% to 95% Relative Humidity(Non-condensing)	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	0°C - 55°C	0°C - 55°C	0°C - 55°C	0°C - 55°C	0°C - 55°C
Storage Temperature	-15°C - 60°C	-15°C - 60°C	-15°C - 60°C	-15°C - 60°C	-15°C - 60°C



Johan van Rensburg

Director & Sales

Cell: 074 580 1914

Email: sales@solarforce-energy.co.za

Skype: Jonnyj3

Growatt WiFi-F

- Cable free, easy installation
- 50 meters long range, wide coverage
- Build-in storage, 1 month data
- Online monitoring and maintenance



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

Growatt
powering tomorrow

www.ginverter.com



Johan van Rensburg

Director & Sales

Cell: 074 580 1914

Email: sales@solarforce-energy.co.za

Skype: Jonnyj3

Datasheet

WiFi-F

General Data

Dimensions(Length/Width/Height)	135/79/29 mm
Weight	63g
Manual language	English, Chinese

Wireless Parameters

Wireless Type	WiFi
Wireless Standard	802.11 b/g/n
Transmit power	802.11b: +20dBm(Max.); 802.11g: +18dBm(Max.); 802.11n: +15dBm(Max.)
Receiver sensitivity	802.11b: -89dBm(Max.); 802.11g: -81dBm(Max.); 802.11n: -71dBm(Max.)

Hardware Parameters

Data Interface	UART: 9600bps; Ethernet: 100Mbps
Operating Voltage	5V (+/-15%)
Operating Current	1A
Operating Temperature	-20°C ~+65°C
Storage Temperature	-40°C ~+70°C
Network Type	AP (Access Point); Station Mode (with Soft AP)
Security Mechanisms	WEP / WPA-PSK / WPA2-PSK / WAPI
Encryption	WEP64 / WEP128 / TKIP / AES

Application on Parameters

Supported servers	ShineServer
Inverter communication	USB A-type
Sever Communication	WiFi via router (Modbus TCP protocol)
Supported Routers	Wireless router (Include 3G router)
User Configuration Interface	Wireless web server (Internet Browser)
Max. Communication Range	100m
Data Transfer Interval	5 minutes
Default Server URL	server-cn.growatt.com



Johan van Rensburg

Director & Sales

Cell: 074 580 1914

Email: sales@solarforce-energy.co.za

Skype: Jonnyj3