

Growatt SPF 3000~5000TL 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 O W

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

INVERTER OUTPUT

| | | | |
|--------------------------------------|---|---------------------------|---------------------------|
| RATED POWER | 3000VA/ 3000W | 3000VA/ 3000W | 5000VA/ 5000W |
| Parallel Capability | No | No | Yes, 6 units |
| AC Voltage Regulation (Battery Mode) | 230VAC \pm 5% @ 50/60Hz | 230VAC \pm 5% @ 50/60Hz | 230VAC \pm 5% @ 50/60Hz |
| Surge Power | 6000VA | 6000VA | 10000VA |
| Efficiency (Peak) | 93% | 93% | 93% |
| Waveform | 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 | 2400W | 4500W |
| MPPT Range @ Operating Voltage | 30VDC ~ 80VDC | 60VDC ~ 115VDC | 60VDC ~ 115VDC |
| Maximum PV Array Open Circuit Voltage | 102VDC | 145VDC | 145VDC |
| Maximum Solar Charge Current | 50A | 40A | 80A |
| Maximum Efficiency | 97% | 97% | 97% |
| Standby Power Consumption | 2 W | 2 W | 2 W |

AC CHARGER

| | | | |
|--------------------------|---|--------------------------|--------------------------|
| Charge Current | 30A | 15A | 60A |
| AC Input Voltage | 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) |

PHYSICAL

| | | | |
|-------------------------|-------------|-------------|-------------|
| Dimension (D/W/H) in mm | 120/315/390 | 120/315/390 | 130/350/455 |
| Net Weight (kgs) | 8 | 8 | 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) |
| Operating Temperature | 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 |