

# Growatt SPF 2000~5000TL HVM

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



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| Datasheet  | SPF 2000TL<br>HVM-24  | SPF 3000TL<br>HVM-24 | SPF 2000TL<br>HVM-48 | SPF 3000TL<br>HVM-48 | SPF 5000TL<br>HVM/HVM-P  |
|--|---|----------------------|----------------------|----------------------|--------------------------|
| Battery Voltage  | 24VDC   |                      | 48VDC                |                      |                          |
| Battery Type   | Lithium/Lead-acid   |                      |                      |                      |                          |
| <b>INVERTER OUTPUT</b>   |   |                      |                      |                      |                          |
| Rated Power  | 2000VA/ 2000W   | 3000VA/ 3000W        | 2000VA/ 2000W        | 3000VA/ 3000W        | 5000VA/ 5000W            |
| Parallel Capability  | No  |                      |                      |                      | No/ Yes, 6 units maximum |
| AC Voltage Regulation<br>(Battery Mode)                        | 230VAC $\pm$ 5%<br>@ 50/60Hz  |                      |                      |                      |                          |
| Surge Power  | 4000VA  | 6000VA               | 4000VA               | 6000VA               | 10000VA                  |
| Efficiency (Peak)  | 93%   |                      |                      |                      |                          |
| Waveform   | Pure sine wave  |                      |                      |                      |                          |
| Transfer Time  | 10ms typical, 20ms Max  |                      |                      |                      |                          |
| <b>SOLAR CHARGER</b>   |   |                      |                      |                      |                          |
| Maximum PV Array Power   | 1500W   |                      | 1800W                |                      | 4500W                    |
| MPPT Range @ Operating Voltage                                 | 30VDC ~ 80VDC   |                      | 60VDC ~ 115VDC       |                      |                          |
| Maximum PV Array Open<br>Circuit Voltage                       | 102VDC  |                      | 145VDC               |                      |                          |
| Number of Independent MPP Trackers/<br>Strings Per MPP Tracker | 1/1   |                      |                      |                      |                          |
| Maximum Solar Charge Current                                   | 50A   |                      | 30A                  |                      | 80A                      |
| Maximum Efficiency   | 98%   |                      |                      |                      |                          |
| <b>AC CHARGER</b>  |   |                      |                      |                      |                          |
| Charge Current   | 30A   |                      | 15A                  |                      | 60A                      |
| AC Input Voltage   | 230 VAC   |                      |                      |                      |                          |
| Selectable Voltage Range                                       | 170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances) |                      |                      |                      |                          |
| Frequency Range  | 50Hz/60Hz (Auto sensing)  |                      |                      |                      |                          |
| <b>PHYSICAL</b>  |   |                      |                      |                      |                          |
| Protection Degree  | IP20  |                      |                      |                      |                          |
| Dimension (W/H/D)  | 315/400/130mm   |                      |                      |                      | 350/455/130mm            |
| Net Weight (kgs)   | 8   | 8.5                  | 8                    | 8.5                  | 11.5                     |
| <b>OPERATING ENVIRONMENT</b>                                   |   |                      |                      |                      |                          |
| Humidity   | 5% to 95% Relative<br>Humidity(Non-condensing)                          |                      |                      |                      |                          |
| Altitude   | <2000m  |                      |                      |                      |                          |
| Operating Temperature  | 0°C - 55°C  |                      |                      |                      |                          |
| Storage Temperature  | -15°C - 60°C  |                      |                      |                      |                          |