



S7 Core Upgrade

Product Description

The S7 core logic upgrade incorporates all current Software Action Requests (SARs) for LM6000 PC engines.

Upgrade also includes all S6 benefits:

- SPRINT[®] Logic optimization and Variable SPRINT added.
- Improved SPRINT[®] enabling.
- NO_x water control improvements.
- T3 and T48 logic revisions.

The S7 core upgrades are:

- Long term PFC solution added (hardware upgrades required).
- Fast start capability, see Fast Start Upgrade page for full benefits.
- Maximum power is predicted realtime for both SPRINT[®] and non-SPRINT[®] operation.
- NO_x and SPRINT[®] logic optimized further.
- T25 Sensor compensation for SPRINT[®]; better behavior in extreme transient conditions.
- N25 MAX Scheduling bias correction.

Applicable Units

| | | | |
|--------|---|--------|--|
| LM6000 | ✓ | LM2500 | |
| LMS100 | | LM5000 | |
| LM1600 | | TM2500 | |



Benefits

- Allows temporary overload of 2 MW, improving engine response to grid fluctuations.
- PFC operating according to grid requirements and maximizing power output.
- Better NO_x control.
- More robust flame out detection during start up, range expanded to N25 > 500 rpm, reducing risk of hung starts and improves false flame out detection.
- Reduced turbine trips help increase plant revenue and efficiency.
- False alarms reduced and major alarm logic revision.
- More developed frequency control algorithms to meet requirements from many different grid authorities.

To learn more about this offering, contact your GE sales representative or visit powergen.gepower.com.