

SPS5785-51198651-100

HPM Power Supply, Version 3

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Honeywell SPS5785-51198651-100 is the current Version 3 HPM power-supply replacement identified by manufacturer part number 51198651-100. It restores the documented supply position in an installed HPM cabinet.

STEP	GATE	ENGINEERING PURPOSE
01	IDENTIFY	Confirm article, host and hardware
02	ISOLATE	Secure power and stored energy
03	CONNECT	Restore documented interfaces
04	VALIDATE	Prove diagnostics and function

WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact Honeywell article.

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Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

- 1

Confirm SPS5785-51198651-100 and manufacturer part number 51198651-100 on the supplied unit.
- 2

Place the HPM and associated process functions in the approved maintenance state.
- 3

Isolate incoming power and prove the affected supply position de-energized.
- 4

Record all input, output, alarm and protective-earth connections before removal.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	SPS5785-51198651-100
Host / carrier	Honeywell High Performance Process Manager
Primary system role	Provides the current Version 3 HPM supply replacement
Acceptance boundary	Verify stable system operation and controlled process response before release.
Source record	Power Supply Issues

WORK AUTHORIZATION RECORD

Work order: _____

Drawing / revision: _____

Checked by: _____

Date: _____

Isolation and Access Register

CONTROL POINT	ENGINEER RECORD
Incoming supply	Isolated / proved
Stored energy	Discharged / proved
Field connections	Identified / protected
ESD control	Established / recorded

Pre-Work Documentation

DOCUMENT	ENGINEER RECORD
Connection photograph	Reference / file
Configuration backup	Reference / revision
Diagnostic baseline	Reference / result

Connection and Installation Sequence

INSTALLATION PRINCIPLE

Match SPS5785-51198651-100 to the installed HPM cabinet and record supply position, input conductors, output connection and protective grounding before removal. Isolate the cabinet, replace one supply position at a time where redundancy is installed, then verify HPM power and system diagnostics before process release.

- 1

Inspect cabinet connector, mounting hardware, airflow path and adjacent supply condition.
- 2

Install only in the documented HPM supply position and restore the recorded wiring.
- 3

Energize under control and review supply, HPM controller and cabinet diagnostics.
- 4

Verify stable system operation and controlled process response before release.

Connection Record

CONNECTION GROUP	AS-FOUND / AS-LEFT RECORD	STATUS
Power / field connection	Reference / terminal	Checked
Signal / interface	Reference / connector	Checked
Ground / shield	Reference / point	Checked
Accessory / carrier	Reference / part	Checked

MODEL-SPECIFIC RELEASE LIMIT

Confirm SPS5785-51198651-100, part number 51198651-100, HPM cabinet execution, supply generation, installed redundancy, input and output wiring, protective grounding, cooling, controller state and controlled power-up diagnostics before commissioning.

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	SPS5785-51198651-100
Host match	Honeywell High Performance Process Manager
Connection proof	Install only in the documented HPM supply position and restore the recorded wiring.
Configuration proof	Energize under control and review supply, HPM controller and cabinet diagnostics.

Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

NO.	ACCEPTANCE CHECK	RESULT	RECORD
1	Article and host identity	PASS / FAIL	Initial / date
2	Mechanical installation	PASS / FAIL	Initial / date
3	Power and field wiring	PASS / FAIL	Initial / date
4	Grounding and shielding	PASS / FAIL	Initial / date
5	Configuration restoration	PASS / FAIL	Initial / date
6	Signal or power-path response	PASS / FAIL	Initial / date
7	Diagnostics and alarms	PASS / FAIL	Initial / date
8	Final functional release	PASS / FAIL	Initial / date

Engineering Notes

RECORD AREA	ENGINEER ENTRY
As-found condition	
Corrective action	
As-left configuration	
Outstanding restriction	
Release authorization	

CONTROLLED COMMISSIONING

Verify stable system operation and controlled process response before release.

Diagnostics and Release Log

EVENT	ENGINEERING RECORD
Initial energization	Result / observation
Interface or signal response	Result / observation
Alarm and diagnostic review	Result / observation
Functional release	Name / date

Maintenance Verification and Closeout

HPM cabinet power restoration

Restores a documented supply position in an installed High Performance Process Manager cabinet.

Legacy HPM supply modernization

Replaces an earlier silver or black HPM supply with the documented current generation.

Redundant supply maintenance

Supports controlled service of one supply path while preserving the approved cabinet arrangement.

HPM startup verification

Provides the exact supply identity used during cabinet power and controller diagnostic checks.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER PAGE
51198651-100	HPM power supply	View 51198651-100 page
FS-PDC-FTA24P	FTA power cable	View FS-PDC-FTA24P page
FC-PSU-240516	V1.1 safety power unit	View FC-PSU-240516 page
8C-PCNT01	51454363-175 controller assembly	View 8C-PCNT01 page
8C-IP0101	51454362-175 I/O assembly	View 8C-IP0101 page
8C-PAIH51	51454352-175 HART analog input	View 8C-PAIH51 page
8C-PDIL51	51454359-175 digital input	View 8C-PDIL51 page
8C-PDODA1	51454472-175 digital output	View 8C-PDODA1 page

MANUFACTURER SOURCE RECORD

Power Supply Issues
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