

PRODUCT CHANGE NOTICE

Date Submitted: 27-Feb-19 Model No.: DS1100PED-3-001 Product Description: 1100W Switching Power Supply Customer P/N: STANDARD Manufacturing Location(s) Affected: Philippines Reason(s) for Change: LED Behavior during SOFT INHIBIT through PMBUS comma			
EXPECTED: PMBus GUI Operation Reg (01h) set to 0x40 =: ACTUAL: PMBus GUI Operation Reg (01h) set to 0x40 =:			
Description of Change(s): FIRMWARE: Update FW from 630-002293-0002 to 630-002293-0003 (ver 01.04.00 to 01.05.00)			
OPERATION: PMBus GUI Operation Reg (01h) set to 0x4 VERSION: PMBus GUI Operation Reg (E1h) =>01.04. See Page 3 for FW Improvement Changes	40 => Blinking Amber (Main Vout goes low) .00 to 01.05.00 (ASCII)		
Affected Area Electrical Components Functional Tests EEPROM EEPROM Verification Mechanical Metal Parts Plastic Parts Labels Insulators Others:	Impact of Change Form Fit Function Quality/Reliability Safety Tooling Cost: Est. Tooling Cost Schedule: No Impact to Above Items		
☐ Plug-In☐ Others Revision Changes ☐ Model Revision☐ Customer P/N☐ Customer P/N☐ Customer P/N Revision☐ EEPROM Comments: Revision Change from AK -> AL as requested by FA	☐ Repair – FRU ☐ CLEI Code ☐ ECI Code ☐ Others:		

Change Applicable to:				
 Vendor - Change will be implemented on all parts that are still with vendor, either in-process or pending delivery. This type of change will affect POs that are pending receipt from vendor. Warehouse - Change will be implemented on parts that are in receiving, already in stock or are pending issuance to Production by Warehouse. Work-in-Process (WIP) - Change will be implemented on parts that are already issued to the assembly line, ongoing assembly or awaiting assembly, ongoing testing or awaiting testing. ☐ Finished Goods (FG) Change will be implemented on Finished Goods awaiting shipment to the customer. ☐ Customer Inventory - Change will be implemented on all units in transit to customer, received at customer, in customer warehouse or customer WIP. This applies only to units are still untouched by customer and in original condition "as-shipped" by Artesyn. BRMA is required ☐ Field Units - Change will be implemented on all units physically integrated into customer products at customer FG, in HUBs or in transit to end-customer, at end- customer location or installed/operating in field application. BRMA and customer field retrofit program is required ☐ Returns for Repair - Change will be implemented on warranty returns from customer ☑ Not Applicable 				
Attachments Qualification Results BOM Circuit Diagram Customer Approval	☐ PCB Layout ☐ Source List / AVL ☐ Component Specs		☐ Deviation List ☐ Process Instructions ☐ Others:	
Requested by :Jofel Esleta Reviewed by : Kenneth Enrile		e: 27-Feb-18 e: 27-Feb-18		
	IMPLEMENTATION	ON DETAILS		
Date: TBA Comments:	Serial No.:		ECO No.: 8140414	
	TO BE FILLED IN BY	THE CUSTOMER		
☐ Approved ☐ Disapproved ☐ No action required (Notification online Reason(s) for rejection or qualifying conditions)	• •	Name: Signature: Title: Company: E-mail Address: Tel. No.: Date:	Fax No.:	

FW Improvement List Of Changes:

- New Feature: Implement Standard Low Voltage Interrupt Requirements (Lessons Learned to prevent data corruption)

 Fix: Implement Standard Data Type on Query (Affects QUERY register 0x1A reads only) This affects bits 4:2 of the QUERY response.

 Table 8. QUERY Command Returned Data Byte Format

Bits	Value	Meaning
7	1	Command is supported
	0	Command is not supported
6	1	Command is supported for write
	0	Command is not supported for write
5	1	Command is supported for read
	0	Command is not supported for read
4:2 000		Linear Data Format used
	001	16 bit signed number
	010	Reserved
	011	Direct Mode Format used
	100	8 bit unsigned number
	101	VID Mode Format used
	110	Manufacturer specific format used
	111	Command does not return numeric data. This is also used for commands that return blocks of data.
1:0	XX	Reserved for future use

Sample reads:

QUERY Read Command	Description	V01.04.00 SEC FW	V01.05.00 SEC FW
A1,01,10	Returns data byte format for WRITE_PROTECT (R/W)	0xEC (11101100b)	0xFC (11111100b)
A1,01,78	Returns data byte format for STATUS_BYTE (R only)	0xAC (10101100b)	0xBC (10111100b)
A1,01,99	Returns data byte format for MFR_ID (R only)	0xBC (10111100b)	0xB8 (10111000b)

Use corrected/standard query data format. Avoid using DIRECT data format for the following registers below:

- 0x00
- b. 0x01
- c. d. 0x10
- 0x19
- e. 0x20
- f. 0x3A
- 0x41 g.
- 0x45
- i. 0x47
- 0x50 j.
- 0x56
- l. 0x5A
- 0x63 m.
- 0x78 0x81 n.
- 0. 0x99
- 0x9A p. 0xB0
- q.
- 0xE1 r.
- s. 0xE7
- 0xE8 t. 0xF1 u.
- 0xF3 ٧.
- w. 0xF4
- 0xF5
- Fix: Update VIN UV reporting PMBUS to latching bits. Status Byte response from 40h to 48h, with VIN UV bit3 flag asserted.
- Fix: E2h and F1h should return 4 byte count

QUERY Read Command	Description	V01.04.00 SEC FW	V01.05.00 SEC FW
E2h	Returns data for CONFIG_UNLOCK_CODE	00,00,00,00	04,00,00,00,00
F1h	Returns data for ISP_UNLOCK_CODE	00,00,00,00	04,00,00,00,00