REV.	Description				Raise by	Date
S00	RELEASE S/M				曹鵬/賈曉東	05/05/'20
S01	UPDATE FRU map	o, ADD Product	Part Number		羅志鵬	10/08/'21
S02	UPDATE Item 6.1				曹鵬	10/13/'21
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File Name:DF-PSLA4V-2R01.DOC

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1 General

This specification defines a 800W common redundant power supply (CRPS) in the 185mm depth form factor that supports server systems. The parameters of this power supply are defined in this specification. This specification defines a power supply with 2 outputs; 12V and 12V standby. The AC input shall be auto ranging and power factor corrected.

2 Mechanical Overview

The physical size of the power supply enclosure is 39/40mm x 73.5mm x 185mm. The power supply shall contain a single 40mm fan. The power supply has a card edge output that interfaces with a 2x25 card edge connector in the system. The AC plugs directly into the external face of the power supply. Refer to the below for the CRPS mechanical drawing. All dimension are nominal.

2.1 DC Output Connector

The power supply shall use a card edge output connection for power and signal that is compatible with a 2x25 Power Card Edge connector (equivalent to 2x25 pin configuration of the FCI power card connector 10035388-102LF).

2.2 Handle Retention

The power supply shall have a handle to assist extraction. The module shall be able to be inserted and extracted without the assistance of tools. The power supply shall have a latch which retains the power supply into the system and prevents the power supply from being inserted or extracted from the system when the AC power cord is pulled into the power supply.

The handle shall protect the operator from any burn hazard through the use of the Intel Corporation Industrial designed plastic handle or equivalent Intel approved material.

2.3 LED Marking and Identification

The power supply shall use a bi-color LED; Amber& Green. Below are table showing the LED states for each power supply operating state and the LED's wavelength characteristics. An example bi-color LED that meets the below characteristics is EVERLIGHT,209SDRSYGW/S530-A3 as table 1.

Refer to the Intel LED Wavelength and Intensity specification for more details.

Table 1 LED Characteristics

	Nominal λd Wavelength	Units
Green	573	nm
Amber	639	nm

Power Supply Condition	LED State
Output ON and OK	GREEN
No AC power to all power supplies	OFF
AC present / Only 12VSB on (PS off) or PS in Cold	1Hz Blink
redundant state	GREEN
AC cord unplugged or AC power lost; with a second	Amber
power supply in parallel still with AC input power.	
Power supply warning events where the power	
supply continues to operate; high temp, high power,	1Hz Blink
high current, slow fan.	Amber
Power supply critical event causing a shutdown;	Amber
failure, OCP, OVP, fan fail.	

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2.4 Temperature Requirements

The power supply shall operate within all specified limits over the T_{op} temperature range. All airflow shall pass through the power supply and not over the exterior surfaces of the power supply.

Table 2 Environmental Requirements

ITEM	DESCRIPTION	MIN	MAX	UNITS
Top	Operating temperature range	0	50	°C
Tnon-op	Non-operating temperature range	-40	80	°C
Altitude	Maximum operating altitude ³		5000	m

2.5 System impedance

The power supply shall incorporate a dual rotor 40mm fan for self cooling in system with higher airflow impedances. The airflow direction shall be from the card edge connector side to the AC inlet side of the power supply.

If needed, system shall be capable of supplying the airflow that is sufficient for power supply cooling when installed in different system with higher airflow impedances.

3 AC Input Requirements

3.1 Power Factor

The power supply must meet the power factor requirements stated in the Energy Star® Program Requirements for Computer Servers. These requirements are stated below.

Output power	10% load	20% load	50% load	100% load
Power factor	> 0.65	> 0.80	> 0.90	> 0.95

Tested at 230Vac, 50Hz and 60Hz and 115VAC, 60Hz

Tested according to Generalized Internal Power Supply Efficiency Testing Protocol Rev 6.4.3.

3.2 AC Inlet Connector

The AC input connector shall be an IEC 320 C-14 power inlet. This inlet is rated for 10A / 250VAC.

3.3 AC Input Voltage Specification

The power supply must operate within all specified limits over the following input voltage range. Harmonic distortion of up to 10% of the rated line voltage must not cause the power supply to go out of specified limits. Application of an input voltage below 85VAC shall not cause damage to the power supply, including a blown fuse.

Table 3 AC Input Voltage Range

PARAMETER	MIN	RATED	V _{MAX}	Start up VAC	Power Off VAC
Voltage (110)	90 V _{rms}	100-127 V _{rms}	140 V _{rms}	>81VAC	<79VAC
Voltage (220)	180 V _{rms}	200-240 V _{rms}	264 V _{rms}		
Frequency	47 Hz	50/60	63 Hz		

1 Maximum input current at low input voltage range shall be measured at 90VAC, at max load.

2 Maximum input current at high input voltage range shall be measured at 180VAC, at max load.

3 This requirement is not to be used for determining agency input current markings.

•Support 240VDC input

Deverseter	N //:	N la vasi va al	N 4
Parameter	IVIIN	Nominai	Max
DC input voltage	180VDC	240VDC	300VDC

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Note: Comply with CCC safety test requirement.

3.4 AC Line Isolation Requirements

The power supply shall meet all safety agency requirements for dielectric strength. Additionally, power supply vendor must provide Intel with written confirmation of dielectric withstand test which includes: voltage level, duration of test and identification detailing how each power supply is marked to indicate dielectric withstand test had been completed successfully. Transformers' isolation between primary and secondary windings must comply with the 3000Vac (4242Vdc) dielectric strength criteria. If the working voltage between primary and secondary dictates a higher dielectric strength test voltage the highest test voltage should be used. In addition the insulation system must comply with reinforced insulation per safety standard IEC 60950. Separation between the primary and secondary circuits, and primary to ground circuits, must comply with the IEC 60950 spacing requirements.

3.5 AC Line Dropout / Holdup

An AC line dropout is defined to be when the AC input drops to 0VAC at any phase of the AC line for any length of time. During an AC dropout the power supply must meet ±10% voltage regulation requirements. An AC line dropout of any duration shall not cause tripping of control signals or protection circuits. If the AC dropout lasts longer than the hold up time the power supply should recover and meet all turn on requirements. The power supply shall meet the AC dropout requirement over rated AC voltages and frequencies. A dropout of the AC line for any duration shall not cause damage to the power supply.

Loading	Holdup time
70%	10msec

3.5.1 AC Line 12VSBHoldup

The 12VSB output voltage should stay in regulation under its full load (static or dynamic) during an AC dropout of **70ms min** (=12VSB holdup time) whether the power supply is in ON or OFF state (PSON asserted or de-asserted).

3.6 AC Line Fuse

The power supply shall have one line fused in the **single line fuse** on the line (Hot) wire of the AC input. The line fusing shall be acceptable for all safety agency requirements. The input fuse shall be a slow blow type. AC inrush current shall not cause the AC line fuse to blow under any conditions. All protection circuits in the power supply shall not cause the AC fuse to blow unless a component in the power supply has failed. This includes DC output load short conditions.

3.7 AC Inrush

AC line inrush current shall not exceed **55A peak**, for up to one-quarter of the AC cycle, after which, the input current should be no more than the specified maximum input current. The peak inrush current shall be less than the ratings of its critical components (including input fuse, bulk rectifiers, and surge limiting device). The power supply must meet the inrush requirements for any rated AC voltage, during turn on at any phase of AC voltage, during a single cycle AC dropout condition as well as upon recovery after AC dropout of any duration, and over the specified temperature range (T_{op}) .

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3.8 AC Line Transient Specification

AC line transient conditions shall be defined as "surge" conditions. "Surge" will be defined to refer to conditions when the AC line voltage rises above nominal voltage.

The power supply shall meet the requirements under the following AC line surge conditions.

Table 5 AC Line Surge Transient Performance

AC Line Surge						
Duration	Surge	Operating AC Voltage	Line Frequency	Performance Criteria		
Continuous	10%	Nominal AC Voltages	50/60Hz	No loss of function or performance		
0 to 1/2 AC cycle	30%	Mid-point of nominal AC Voltages	50/60Hz	No loss of function or performance		

3.9 Susceptibility Requirements

The power supply shall meet the following electrical immunity requirements when connected to a cage with an external EMI filter which meets the criteria defined in the SSI document EPS Power Supply Specification. Table 6 Performance Criteria

Level	Description
А	The apparatus shall continue to operate as intended. No degradation of
	performance.
В	The apparatus shall continue to operate as intended. No degradation of
	performance beyond spec limits.
C	Temporary loss of function is allowed provided the function is self-recoverable or
	can be restored by the operation of the controls.

3.10 Electrostatic Discharge Susceptibility

The power supply shall comply with the limits defined in EN 55024: 1998/A1: 2001/A2: 2003 using the IEC 61000-4-2: Edition 1.2: 2001-04 test standard and performance criteria B defined in Annex B of CISPR 24.

3.11 Fast Transient/Burst

The power supply shall comply with the limits defined in EN55024: 1998/A1: 2001/A2: 2003 using the IEC 61000-4-4: Second edition: 2004-07 test standard and performance criteria B defined in Annex B of CISPR 24.

3.12 Radiated Immunity

The power supply shall comply with the limits defined in EN55024: 1998/A1: 2001/A2: 2003 using the IEC 61000-4-3: Edition 2.1: 2002-09 test standard and performance criteria A defined in Annex B of CISPR 24.

3.13 Surge Immunity

The power supply shall be tested with the system for immunity to AC Unidirectional wave; 4kV line to ground and 2kV line to line, per EN 55024: 1998/A1: 2001/A2: 2003, EN 61000-4-5: Edition 1.1:2001-04. The pass criteria include: No unsafe operation is allowed under any condition; all power supply output voltage levels to stay within proper spec levels; No change in operating state or loss of data during and after the test profile; No component damage under any condition.

Note: the power supply shall be tested to 4.2kV line to ground and 2.1kV line to line to check for design margin.

The power supply shall comply with the limits defined in EN55024: 1998/A1: 2001/A2: 2003 using the IEC 61000-4-5: Edition 1.1:2001-04 test standard and performance criteria B defined in Annex B of CISPR 24.

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3.14 Power Recovery

The power supply shall recover automatically after an AC power failure. AC power failure is defined to be any loss of AC power that exceeds the dropout criteria.

3.15 Voltage Interruptions

The power supply shall comply with the limits defined in EN55024: 1998/A1: 2001/A2: 2003 using the IEC 61000-4-11: Second Edition: 2004-03 test standard and performance criteria C defined in Annex B of CISPR 24.

4 Efficiency

The following table provides the required minimum efficiency level at various loading conditions. These are provided at three different load levels; 100%, 50%, 20%, and 10%. Output shall be load according to the proportional loading method defined by 80 Plus in Generalized Internal Power Supply Efficiency Testing Protocol Rev 6.4.3. This is posted at <u>http://efficientpowersupplies.epri.com/methods.asp</u> The fan losses are not include in the efficiency calculation and measurements.

Table 7 Platinum Efficiency Requirement

Loading	100% of maximum	50% of maximum	20% of maximum	10% of maximum
Minimum Efficiency	91%	94%	90%	82%

Note: Tested at 230Vac/50Hz.

5 DC Output Specification

5.1 Output Power / Currents

The following tables defines the minimum power and current ratings. The power supply must meet both static and dynamic voltage regulation requirements for all conditions.

Table 8 Minimum Load Ratings

Parameter	VAC	Min	Max.	20sec Peak ²	15msec Peak ³	Unit
12V main	100-240	0.0	65	70.8	76	А
12Vstby ¹		0.0	2	2.4	NA	А

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Notes:.

- 1) After normal operation 12Vstby must provide 4.0A with two power supplies in parallel. The Fan may work when stby current >1.5A
- Length of time the 20sec peak power can be supported is based on thermal sensor and assertion of the SMBAlert# signal. Minimum peak power duration shall be 20 seconds without asserting the SMBAlert# signal at maximum operating temperature.
- 3) Duty cycle of the 15msec peak power shall be 5%; 15msec at Peak / 300msec at continuous rated power.
- 4) The length of time the 15msec peak power can be supported is based on the SMBAlert# signal asserting for electrical protection of the PSU. This peak power must be support for no less than 5msec after the SMBAlert# signal is asserted.

5.2 Peak load with added system buffer capacitance

The power supply shall be able to support peak power levels higher than 80.0A (960W) with added system buffer capacitance for up to 100µsec.

Peak Power	Peak current	System capacitance	Peak load duration	Voltage undershoot
1250W	104A	5,000 µF	100µsec	-10%
1350W	112A	8,000 µF	100µsec	-10%
1450W	121A	12,000 µF	100µsec	-10%



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5.4 Voltage Regulation

The power supply output voltages must stay within the following voltage limits when operating at steady state and dynamic loading conditions. These limits include the peak-peak ripple/noise. These shall be measured at the output connectors.

Table 9 Voltage Regulation Limits

PARAMETER	TOLERANCE	MIN	NOM	MAX	UNITS
+12V	- 5% / +5%	+11.40	+12.00	+12.60	V _{rms}
+12V stby	- 5% / +5%	+11.40	+12.00	+12.60	V _{rms}

5.5 Dynamic Loading

The output voltages shall remain within limits specified for the step loading and capacitive loading specified in the table below. The load transient repetition rate shall be tested between 50Hz and 5kHz at duty cycles ranging from 10%-90%. The load transient repetition rate is only a test specification. The Δ step load may occur anywhere within the MIN load to the MAX load conditions.

Table 10 Transient Load Requirements

Output	∆ Step Load Size (See note 2)	Load Slew Rate	Test capacitive Load
+12VSB	1.0A	0.5 A/μsec	2200 μF
+12V	60% of max load	0.5 A/µsec	2200 μF

Note: For dynamic condition +12V min loading is 1A. Min loading1A spec +/-10%,Min load >2A spec +/-5%

5.6 Capacitive Loading

The power supply shall be stable and meet all requirements with the following capacitive loading ranges.

Table 11 Capacitive Loading Conditions					
Output	MIN	MAX	Units		
+12VSB	20 🔶	3100	μF		
+12V	500	25000	μF		

5.7 Grounding

The output ground of the pins of the power supply provides the output power return path. The output connector ground pins shall be connected to the safety ground (power supply enclosure). This grounding should be well designed to ensure passing the max allowed Common Mode Noise levels.

The power supply shall be provided with a reliable protective earth ground. All secondary circuits shall be connected to protective earth ground. Resistance of the ground returns to chassis shall not exceed 1.0 m Ω . This path may be used to carry DC current.

5.8 Closed loop stability

The power supply shall be unconditionally stable under all line/load/transient load conditions including capacitive load ranges specified in Section 4.6. A minimum of: **45 degrees phase margin** and **-10dB-gain margin** is required. The power supply manufacturer shall provide proof of the unit's closed-loop stability with local sensing through the submission of Bode plots. Closed-loop stability must be ensured at the maximum and minimum loads as applicable.

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5.9 Residual Voltage Immunity in Standby mode

The power supply should be immune to any residual voltage placed on its outputs (Typically a leakage voltage through the system from standby output) up to **500mV**. There shall be no additional heat generated, nor stressing of any internal components with this voltage applied to any individual or all outputs simultaneously. It also should not trip the protection circuits during turn on. The residual voltage at the power supply outputs for no load condition shall not exceed **100mV** when AC voltage is applied and the PSON# signal is de-asserted.

5.10 Common Mode Noise

The Common Mode noise on any output shall not exceed **350mV pk-pk** over the frequency band of 10Hz to 20MHz.

- 1. The measurement shall be made across a 100Ω resistor between each of DC outputs, including ground at the DC power connector and chassis ground (power subsystem enclosure).
- 2. The test set-up shall use a FET probe such as Tektronix model P6046 or equivalent.

5.11 Soft Starting

The Power Supply shall contain control circuit which provides monotonic soft start for its outputs without overstress of the AC line or any power supply components at any specified AC line or load conditions.

5.12 Zero Load Stability Requirements

When the power subsystem operates in a no load condition, it does not need to meet the output regulation specification, but it must operate without any tripping of over-voltage or other fault circuitry. When the power subsystem is subsequently loaded, it must begin to regulate and source current without fault.

5.13 Hot Swap Requirements

Hot swapping a power supply is the process of inserting and extracting a power supply from an operating power system. During this process the output voltages shall remain within the limits with the capacitive load specified. The hot swap test must be conducted when the system is operating under static, dynamic, and zero loading conditions. The power supply shall use a latching mechanism to prevent insertion and extraction of the power supply when the AC power cord is inserted into the power supply. Note: For hot swap condition, the +12V voltage regulation spec is +/-8%.

5.14 Forced Load Sharing

The +12V output will have active load sharing. The output will share within 10% at full load. The failure of a power supply should not affect the load sharing or output voltages of the other supplies still operating. The supplies must be able to load share in parallel and operate in a hot-swap / redundant **1+1** configurations. The 12VSBoutput is not required to actively share current between power supplies (passive sharing). The 12VSBoutput of the power supplies are connected together in the system so that a failure or hot swap of a redundant power supply does not cause these outputs to go out of regulation in the system.

5.15 Ripple / Noise

At room temperature, The maximum allowed ripple/noise output of the power supply is defined in <u>Table 3</u>: <u>Ripples and</u> Noise below. This is measured over a bandwidth of 10Hz to 20MHz at the power supply output connectors. A 10μ F tantalum capacitor in parallel with a 0.1μ F ceramic capacitor is placed at the point of measurement.

Table 3: Ripples and Noise

+12V main	+12VSB
120mVp-p	120mVp-p

• Adding minimum capacitive Loading (20uF) in +12VSB output, and capacitance of 3300uF in +12V output.

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The test set-up shall be as shown below.



Note: When performing this test, the probe clips and capacitors should be located close to the load.

5.16 Timing Requirements

These are the timing requirements for the power supply operation. The output voltages must rise from 10% to within regulation limits (T_{vout_rise}) within 2 to 70ms. For 12VSB, it is allowed to rise from 1.0 to 25ms. **All outputs must rise monotonically**. Table below shows the timing requirements for the power supply being turned on and off via the AC input, with PSON held low and the PSON signal, with the AC input applied.

	DESCRIPTION	MIN	MAX	UNITS
T _{vout_rise}	Output voltage rise time	2 *	70 *	ms
Tsb_on_delay	Delay from AC being applied to 12VSBbeing within regulation.		1500	ms
T ac_on_delay	Delay from AC being applied to all output voltages being within regulation.		3000	ms
Tvout_holdup	Time 12VI output voltage stay within regulation after loss of AC.(At 70% load)			ms
Tpwok_holdup	Delay from loss of AC to de-assertion of PWOK	10		ms
Tpson_on_delay	Delay from PSON# active to output voltages within regulation limits.	5	400	ms
T pson_pwok	Delay from PSON# deactivate to PWOK being de-		5	ms
Tpwok_on	Delay from output voltages within regulation limits to PWOK asserted at turn on.	100	500	ms
T pwok_off	Delay from PWOK de-asserted to output voltages dropping out of regulation limits.	1		ms
Tpwok_low	Duration of PWOK being in the de-asserted state during an off/on cycle using AC or the PSON signal.	100		ms
Tsb_vout	Delay from 12VSBbeing in regulation to O/Ps being in regulation at AC turn on.	50	1000	ms
T12VSB_holdup	Time the 12VSBoutput voltage stays within regulation after loss of AC.	70		ms

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6 Protection Circuits

Protection circuits inside the power supply shall cause only the power supply's main outputs to shutdown. If the power supply latches off due to a protection circuit tripping, an AC cycle OFF for 15sec and a PSON[#] cycle HIGH for 1sec shall be able to reset the power supply.

6.1 Current Limit (OCP)

The power supply shall have current limit to prevent the outputs from exceeding the values shown in table below. If the current limits are exceeded the power supply shall shutdown and latch off. The latch will be cleared by toggling the PSON# signal or by an AC power interruption. The power supply shall not be damaged from repeated power cycling in this condition. 12VSB will be auto-recovered after removing OCP limit.

Table 4 Over Current Protection

Output VOLTAGE	Input voltage range	OVER CURRENT LIMITS
+12V	90 – 264VAC	(77Amin, 84Amax)
	Trip delay	50msec min
12VSB	90 – 264VAC	2.5A min; 6A max

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6.2 Over Power Protection

The power supply shall support over power protection (OPP) level low enough to protect the power supply running in this mode for repeated 1msec durations at a 1% duty cycle. The power supply shall be stable operating at any load point from rated power up to the OPP point.

OPP threshold: 1050W +/-50W

The PSU shall support peak resistive load of 1450W for 1msec without added capacitors without shutting down.

(Note: it may fold back its output voltage to less than 9v.That means during the 1ms OPP time, the output voltage may drop to 9v. But the PSU shall not shut down, after 1ms, PSU will return to normal operation.)

6.3 Over Voltage Protection (OVP)

The power supply over voltage protection shall be locally sensed. The power supply shall shutdown and latch off after an over voltage condition occurs. This latch shall be cleared by toggling the PSON[#] signal or by an AC power interruption. The values are measured at the output of the power supply's connectors. The voltage shall never exceed the maximum levels when measured at the power connectors of the power supply connector during any single point of fail. The voltage shall never trip any lower than the minimum levels when measured at the power trip over the power than the minimum levels when measured at the power during OVP limit.

Table 15 Over Voltage Protection (OVP) Limits

Output Voltage	MIN (V)	MAX (V)
+12V	13	14.5
+12VSB	13	14.5

6.4 Over Temperature Protection (OTP)

The power supply will be protected against over temperature conditions caused by loss of fan cooling or excessive ambient temperature. In an OTP condition the PSU will shutdown. When the power supply temperature drops to within specified limits, the power supply shall restore power automatically, while the 12VSB remains always on. The OTP circuit must have built in margin such that the power supply will not oscillate on and off due to temperature recovering condition. The OTP trip level shall have a minimum of 4°C of ambient temperature margin.

7 Control and Indicator Functions

The following sections define the input and output signals from the power supply. Signals that can be defined as low true use the following convention: $Signal^{\#} = low true$

7.1 PSON# Input Signal

The PSON[#] signal is required to remotely turn on/off the power supply. PSON[#] is an active low signal that turns on the +12V power rail. When this signal is not pulled low by the system, or left open, the outputs (except the +12VSB) turn off. This signal is pulled to a standby voltage by a pull-up resistor internal to the power supply. Refer to <u>Table 17</u> for the timing diagram.

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Table 16 PSON# Signal Characteristic					
Signal Type	Accepts an open collector/drain input from the system. Pull-up to VSB located in power supply.				
PSON [#] = Low	ON				
PSON [#] = High or Open	OFF				
	MIN	MAX			
Logic level low (power supply ON)	0V	0.8V			
Logic level high (power supply OFF)	2.0V	3.46V			
Source current, Vpson = low		4mA			
Power up delay: T _{pson_on_delay}	5msec	400msec			
PWOK delay: T pson_pwok		5msec			





7.2 PWOK (Power OK) Output Signal

PWOK is a power OK signal and will be pulled HIGH by the power supply to indicate that all the outputs are within the regulation limits of the power supply. When any output voltage falls below regulation limits or when AC power has been removed for a time sufficiently long so that power supply operation is no longer guaranteed, PWOK will be de-asserted to a LOW state. See <u>Table 17</u> for a representation of the timing characteristics of PWOK. The start of the PWOK delay time shall inhibited as long as any power supply output is in current limit.

T I I 4 T	DIMON OF		· · · ·
I able 17	PWOKS	ignal Cha	aracteristics

Signal	Signal Type			or/drain out B located i	put from power supply. n the power supply.	
PWOK	PWOK = High			Pow	er OK	
PWOK	= Low			Power	Not OK	
			MIN		MAX	
Logic	level low voltage,	lsink=400uA	0V		0.4V	
Logic	level high voltage	e, Isource=200μA	2.4V		3.46V	
Sink c	urrent, PWOK = lo	SW			400uA	
Source	Source current, PWOK = high				2mA	
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PWOK delay: T _{pwok_on}	100ms	500ms
PWOK rise and fall time		100µsec
Power down delay: T pwok_off	1ms	

A recommended implementation of the Power Ok circuits is shown below.

Note: the Power Ok circuits should be compatible with 5V pull up resistor (>10k) and 3.3V pull up resistor (>6.8k)



SMBAlert# Signal 7.3

This signal indicates that the power supply is experiencing a problem that the user should investigate. This shall be asserted due to Critical events or Warning events. The signal shall activate in the case of critical component temperature reached a warning threshold, general failure, over-current, over-voltage, undervoltage, failed fan.

This signal may also indicate the power supply is reaching its end of life or is operating in an environment exceeding the specified limits.

This signal is to be asserted in parallel with LED turning solid Amber or blink Amber.

Table 18 SMBAlert# Signal Characteristics					
Open collector / drain output from power					
supply. Pull-up to VS	B located in system.				
	DK				
Power Alert to system					
MIN	MAX				
0 V	0.4 V				
	3.46 V				
	4 mA				
	50 μA				
	100 μs				
	# Signal Characteristic Open collector / drain supply. Pull-up to VS O Power Ale MIN 0 V				

Environmental Requirements 8

8.1 **Temperature**

See section 2.4 for operating requirements. Non-operating Ambient: -40°C to +80°C (Maximum rate of change of 20°C/hour)

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8.2 Humidity

Operating:To 85% relative humidity (non-condensing)Non-Operating:To 95% relative humidity (non-condensing)NOTE:95% relative humidity is achieved with a dry bulb temperature of 55°C and a wet bulb temperature of

54°C.

8.3 Altitude

Operating:to 5000 m Non-operating: to 15200 m

8.4 Mechanical Shock

Non-operating: 50 G Trapezoidal Wave, Velocity change = 170 in. / sec. Three drops in each of six directions are applied to each of the samples.

8.5 Random Vibration

Non-operating <u>Sine sweep</u>: 5Hz to 500Hz @ 0.5gRMS at 0.5 octave/min; dwell 15 min at each of 3 resonant points; <u>Random profile</u>: 5Hz @ 0.01g²/Hz to 20Hz @ 0.02g²/Hz (slope up); 20Hz to 500Hz @ 0.02g²/Hz (flat); Input acceleration = 3.13gRMS; 10 min. per axis for 3 axis on all samples

8.6 Thermal Shock (Shipping)

Non-operating:-40°C to +80°C, 50 cycles, 30°C/min. ³ transition time ³ 15°C/min., duration of exposure to temperature extremes for each half cycle shall be 30 minutes.

9 FRU Requirements

9.1 FRU Data

The FRU data format shall be compliant with the *IPMI ver.1.0 (per rev.1.1 from Sept.25, 1999)* specification. The current version of these specifications is available at <u>http://developer.intel.com/design/servers/ipmi/spec.htm.</u> The following is the exact listing of the EEPROM content. During testing this listing shall be followed and verified.

9.2 FRU Device Protocol

The FRU device will implement the same protocols as the commonly used AT24C02 device, including the Byte Read, Sequential Read, Byte Write, and Page Read protocols.

9.2.1 FRU Data Format

The information to be contained in the FRU device is shown in the following table.

Table 19 FRU da	ata format
Area Type	Description
Common Header	As defined by the FRU document
Internal Use Area	Not required, do not reserve
Chassis Info Area	Not applicable, do not reserve
Board Info Area	Not applicable, do not reserve
Product Info Area	As defined by the IPMI FRU document. Product information shall be defined as follows:
Field Name	Field Description
Manufacturer Name	{Formal name of manufacturer}

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Product Name	{Manufacturer's model number}			
Product part/model number	Customer part number			
Product Version	Customer current revision			
Product Serial Number	{Defined at time of manufacture}			
Asset Tag	{Not used, code is zero length byte}			
FRU File ID	{Not required}			
PAD Bytes	{Added as necessary to allow for 8-byte offset to next area}			
Multi-Record Area	As defined by the IPMI FRU document. The following record types shall be used on this power supply: Power Supply Information (Record Type 0x00) DC Output (Record Type 0x01) No other record types are required for the power supply. Multi-Record information shall be defined as follows:			
Field Name (PS Info)	Field Information Definition			
Overall Capacity (watts)	800			
Peak VA	1450			
Inrush current (A)	55			
Inrush interval (msec)	5			
Low end input voltage range 1	90			
High end input voltage range 1	140			
Low end input voltage range 2	180			
High end input voltage range 2	264			
A/C dropout total. (msec)	10			
Binary flags	Set for: Hot Swap support, Auto switch, and PFC			
Peak Wattage	Set for: 878Watts			
Combined wattage	None			
Predictive fail tach support	Supported			
Field Name (Output)	Field Description: Two outputs are to be defined from #1 to #2, as follows: +12V-and +12VSB.			
Output Information	Set for: Standby on +12VSB, No Standby on all others.			
All other output fields	Format per IPMI specification, using parameters in this specification.			

10 Documentation

10.1 Thermal Evaluation

The power supply vendor will conduct a thermal evaluation of the power supply. This evaluation shall be completed at all full rated load conditions, with the AC line voltage margined, per typical safety agency test requirements (i.e. -10% and +6%). The power supply will be operated at maximum ambient temperature during this series of tests.

Additionally, a thermal test of the standby voltage supply shall be implemented, under the same conditions, with the power supply in the off condition, since the standby power supply typically relies on natural convection cooling when the power system is in the off condition.

A thermal test with PSU installed in system chassis and with dummy load connected to outside the chassis will also be performed.

The components tested should include all safety-related components such as the transformers, bulk capacitors, the printed circuit board, etc. Additional components that are key to the reliability of the power supply shall be measured. These include but are not limited to the switching transistors, bridges, diodes, etc.

The power supply vendor will provide a report detailing the test conditions, components measured, manufacturers maximum temperature, safety agency temperature limit (as applicable), and design goal maximum temperature (design goal temperature are for meeting the required MTBF of the power supply).

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Unless otherwise wavered or approved by Intel, the design goal temperatures are also subject to reliability goals detailed in 11.1 Component De-rating

10.2 Safety Agency Test Results

As outlined in Section 12.0, Product Regulatory Requirements, the power supply manufacturer will provide complete copies of all safety agency reports, and data submitted to the safety agencies. A copy of any additional data gathered but not included in the data submitted to the safety agencies shall also be provided.

These tests shall be completed at all full rated load conditions, with the AC line voltage margined, per typical safety agency test requirements (i.e. -10% and +6%). The power supply will be operated at maximum ambient temperature during this series of tests.

11 Reliability / Warranty / Service

11.1 Life Requirement

The power supply shall support **<u>5 year</u>** calculated life with a 90% confidence under the following conditions:

- 100-240VAC input
- o 50C inlet temperature
- 50% of the time at 20% load; 50% of the time at 80% load

*remove the original "investigative" life time requiement.

11.2 Mean Time between Failures (MTBF)

The power supply shall have a minimum MTBF at continuous operation of

- 1. 100,000 hours at 75% load and 40°C, as calculated by Bell core RPP, or
- 2. 250,000 hours demonstrated at 75% load and 40°C

11.3 Warranty Period

Three (3) years.

11.4 Serviceability

No troubleshooting by maintenance personnel is to be performed. Only unit replacement will be done in the field

12 Product Regulatory Requirements

Intended Application – This product was evaluated as Information Technology Equipment (ITE), which may be installed in offices, schools, computer rooms, and similar commercial type locations. The suitability of this product for other product categories and environments (such as: medical, industrial, telecommunications, NEBS, residential, alarm systems, test equipment, etc.), other than an ITE application, may require further evaluation.

12.1 Product Safety Compliance

UL60950-1/CSA 60950-1 (USA / Canada) EN60950-1 (Europe) IEC60950-1 (International) CB Certificate & Report, IEC60950-1 (report to include all country national deviations) Nordics – EMKO-TSE (74-SEC) 207/94 CE - Low Voltage Directive 2006/95/EC (Europe) GB4943- CNCA Certification (China)

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12.2 Product EMC Compliance – Class A Compliance

Note: The product is required to comply with Class A emission requirements as the end system that it is configured into is intended for a commercial environment and market place. Power supply is to have minimum of 3db margin to Class A Limits.

FCC /ICES-003 - Emissions (USA/Canada) Verification CISPR 22 - Emissions (International) EN55022 - Emissions (Europe) EN55024 - Immunity (Europe)

- EN61000-4-2 Electrostatic Discharge
- EN61000-4-3 Radiated RFI Immunity
- EN61000-4-4 Electrical Fast Transients
- EN61000-4-5 Electrical Surge
- EN61000-4-6 RF Conducted
- EN61000-4-8 Power Frequency Magnetic Fields
- EN61000-4-11 Voltage Dips and Interruptions *EN61000-3-2 - Harmonics (Europe) *EN61000-3-3 - Voltage Flicker (Europe) CE – EMC Directive 89/336/EEC (Europe) JEIDA (Japan) AS/NZS CISPR 22 (Australia / New Zealand) GB 9254 – (EMC) Certification (China) GB 17625.1 - (Harmonics) CNCA Certification (China)

TA CONTENTIA *Refer to detailed Harmonic Requirements and Table 1



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BASIS FOR THE MANUFACTURE OR SELL OF APPARATUSES OR DEVICES

12.3 Certifications / Registrations / Declarations

UL Certification (US/Canada) CB Certificate & Report CE Declaration of Conformity (CENELEC Europe) CNCA Certification (China) BSMI Certification (Taiwan) KC Certification(South Korea) CU/EAC Certificate(Russia) TUV Certification(Germany)

Notes:

- a) Certification shall be done to the most recent standard editions.
- b) To support ALPHA or BETA development power supply shipments, at least one 3rd party certification is required (e.g. NEMKO, UL, etc.).
- c) Power Supply Vendor requires providing copy of each certification.

12.4 Component Regulation Requirements

- A. All Fans shall have the minimum certifications: UL and TUV or VDE
- B. All current limiting devices shall have UL and TUV or VDE certifications and shall be suitable rated for the application where the device in its application complies with IEC60950.
- C. All printed wiring boards shall be rated UL94V-0 and be sourced from a UL approved printed wiring board manufacturer
- D. All connectors shall be UL recognized and have a UL flame rating of UL94V-0
- E. All wiring harnesses shall be sourced from a UL approved wiring harness manufacturer. SELV Cable to be rated minimum 80V, 130C
- F. Product safety label must be printed on UL approved label stock and printer ribbon. Alternatively labels can be purchased from a UL approved label manufacturer.
- G. The product must be marked with the correct regulatory markings to support the certifications that are specified in this document

12.4.1Harmonics and Voltage Flicker Compliance Information

Input Line Current Harmonic Content (PFC)

The power supply shall meet the requirements of EN61000-3-2 Class A and the Guidelines for the Suppression of Harmonics in Appliances and General Use Equipment Class A for harmonic line current content at full rated power.

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	Table 50 Harmo	nic Limits for Clas	s A equipmen	t	
		Per: EN 6	61000-3-2	Per: JEIDA MITI	
	Harmonic Ord	er Maximum p	permissible	Maximum permissible	
	n	Harmonic 230Vac/50F	current at <u>Iz</u> in Amps	Harmonic current at <u>100Vac/50Hz</u> in Amps	
		Oc	d harmonics		
	3	2.3	3	5.29	
	5	1.1	4	2.622	
	7	0.7	7	1.771	
	9	0.4	4	0.92	
	11	0.3	33	0.759	
	13	0.2	21	0.483	
	15≤n ≤ 39	0.15x ((15/n)	0.345x (15/n)	
		Eve	en harmonics		
	2	1.0)8	2.484	
	4	0.4	3	0.989	
	6	0.:	3	0.69	
	8≤ n≤40	0.23x	(8/n)	0.529x (8/n)	
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12.5 Other Safety Requirement Notations

12.5.1 Certification Conditions

Safety certifications shall not be contingent to any unusual or difficult Conditions of Acceptability such as mandatory additional cooling or power de-rating

12.5.2 Isolation between Primary - Secondary

Reinforced insulation must be used between primary and secondary circuits

12.5.3Creepage & Clearance Requirements

Creepage and Clearance distances must comply with those specified by safety standards Creepage distances require meeting 5000M attitude to comply with China GB4943.1-2011

12.5.4Leakage Current Maximums

Maximum leakage current to ground shall be less than 1.3mA 240VAC/50HZ

12.5.5Max Surface Temperatures

The temperature of the power supply chassis shall not exceed 70 °C under all circumstances. Otherwise, a UL international HOT SURFACE label is required. If this HOT SURFACE label is required, it shall be placed in such a manner that when the power supply is extracted from the system, the label shall be visible before the operator has a chance to touch the hot surface of the power supply.

12.5.6Date Coded Serial Numbers

Power supply shall be marked with a date-coded number for traceability purposes and to comply with CSA 950 marking requirements

12.5.7Power Input Electrical Ratings

Power supply shall be tested to allow Nominal AC input operating voltages (100-127VAC and 200-240 VAC) and current rating. 127V is required for countries such as Mexico The earth safety conductor shall be color-coded green/yellow and suitable sized for the max current of the power supply.

12.5.8Maximum Allowable Temperatures on Inlet Receptacles

The inlet receptacle shall be suitably rated for the maximum operating temperature to the power supply, when installed in a rack environment.

12.5.9Maximum Allowable Temperatures on Power Cords

The exhaust air of the power supply shall not impose temperatures that will exceed the maximum allowable temperature of the power cord.

12.5.10 China GB4943.1-2011 Tropical Environment

The power supply shall be tested and meet the Tropical Environmental requirements per China GB4943.1-2011

12.5.11Insulation resistance

Primary to safety ground: 500Vdc, 30M ohms min

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12.6 Power Supply, Cage & Module Regulatory & Safety Markings

The power supply vendor shall mark the power supply with the following product regulation markings. The Barcode shall follow code 39 format.

12.7 Other Safety / Regulatory Marks on Power Supplies

12.7.2 Power Supply Model Designation

The power supply model designation must be marked on the power supply. All regulatory certifications and documents must carry the same model designation for traceability purposes.

12.7.3Electrical Input & Output Ratings

The AC or DC electrical input ratings (V, A, Hz), and secondary electrical output ratings (V, A, W >total output power<) must be marked on the power supply.

If possible, the end system input electrical ratings should also be marked on the power supply. These markings need to be visible to the outside of the end system. These electrical rating for the end system may be different than the ones for the power supply – this is acceptable. Marking the power supply with the end system electrical ratings, provides flexibility if the end system may be configured with various power supplies. This ultimately reduces the need to change the end system electrical rating label each time the system is configured with a different power supply.

12.7.4Shock Hazard & Service Only Warning

The power supply module shall be marked with the international label shown below to indicate that no user serviceable parts are contained in the power supply. This label shall be printed on bright yellow vinyl label stock with black symbols.



Size may vary depending on room and location on power supply



12.7.4Caution Hot Surface Warning

The power supply shall be marked with a Caution Hot Surface Warning label. The label shall be located in such that when servicing takes place the service person will first see the label. For redundant type modules, the label should be seen first as the module is being extracted from the power supply cage.

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12.7.5Protective Earth Ground Symbol

The IEC 417, No 5091a protective earth symbol, shall be marked adjacent to the protective earth termination.



12.7.6Line & Neutral Terminal Markings

The Line and Neutral Terminals coming into the power supply shall be marked with the "L" for Line and "N" for Neutral. Typically these markings are silk screened on the power supply printed wiring board adjacent to the Line and Neutral terminals

12.7.7 Fuse Markings

The AC fuse (line and/or neutral) shall be marked with the fuse electrical rating and type, adjacent to the fuse(s). Also the fuse component designation shall be marked adjacent to the fuse.

Example: F1, 250V, 3A, SB.

13 Firmware Description

13.1 Data Formats

The data format for current, voltage, power, temperature, and fan speed shall use the PMBus Literal format.

Literal data format: $X = Y \cdot 2^{N}$

X = the sensor value in volts, amps, watts, degrees C, or RPM

Y = mantissa

The mantissa is the variable components that changes as the sensor value changes.

Y is a 16 bit unsigned value for the READ_VOUT command. For all other READ commands Y is a 11 bit signed 2's compliment value.

N = exponent. The exponents are fixed for each power supply and define the resolution for each sensor.

13.2 VOUT_MODE

For reading output voltages the power supply shall support the VOUT_MODE command to report the output voltage formatting for the READ_VOUT command. The VOUT_MODE shall be set to Linear and the exponent (N) shall be set to -9.

Table 11: VOUT_MODE settings for reading output voltage(s).

Mode	Bit[7:5]	Bit[4:0]
Linear	000b	10111b(-9)

13.3 PMBus command list

Comm Code	iand	Comman	id Name	۱]	Numbe Data B	⊧r Of ytes	PSU Transaction Type		
	ء .T	 台達電子 D <u>ELTA</u>	 ←工業股份有 ELECTRON	 限公司 IICS, I] NC.	DESC 電氣規	CRIPTION: 見格 (Electrical Specifi d	catio	on)
THESE DRAWINGS ELECTRONICS, IN BASIS FOR THE M WITHOUT PERMIS	AND SPE C. AND SH ANUFACT SION.	CIFICATION ALL NOT BE URE OR SEL	S ARE THE PROPER E REPRODUCED OR L OF APPARATUSE	ILTA THE ICES	MOD D	EL NO. : PS-800AB-30 S			
Date	Dra	wn	Design (EE)	Desigr	า (ME)	DOC	UMENT NAME. :	I	REV.
10/13/'21	金雨	雨霞	曹鵬	賈哮	善東	E	S-800AB-30 S		S02

SHEET 23 OF 34

03	3h	CLEAR	FAULTS		0		Send Byte		
05	5h	PAGE I	PLUS WRITE				Block Write		
06	6h	PAGE	PLUS READ				Block Write-Block		
							Read Process Call		
19	9h	CAPABILITY			1		Read Byte		
1/	Ah	QUERY					BW-BR Process		
							Call		
16	Bh	SMBAL	ERT MASK				BW-BR Process		
		_					Call		
30	Oh	COFFF					BW-BR Process		
							Call		
3/	Ah	FAN CO	ONFIG		1		Read/Write Byte		
3	Bh	FAN CO	OMMAND 1		2		R/W Word		
5	1h	OT WA	RN LIMIT		2		R/W Word		
79	9h	STATUS	S WORD		2		Read Word		
	(Low)bit6	017110	<u></u>	OFF					
	bit5		VOUT_OV_F	AULT					
	bit4		IOUT	70_T					
	bit2		TEMPERAT	URE					
	bit1								
	Ditu (High)bit7		NON OF THE AE						
	bit6		IOUT/F						
	bit5			VPUT					
	bit3		POWER_GO	OD#					
	bit2		F	ANS					
78	Bh	STATUS	S IOUT		1		Read Byte		
	bit7		IOUT_OC_F	AULT		$\left(\right)$			
	bit5		IOUT_OC_WAR	NING					
	bit0		POUT OP WAR	NING)			
70	Ch	STATUS		$\mathcal{H}\mathcal{F}$	1		Read Byte		
	bit5		VIN UV WAR	NING	× •		riodd Dylo		
	bit4								
	bit?	Unit Of	For Low Input Vo						
	bit1			NING					
	bit								
71		CTATU			1		Pood Byto		
/1							INEAU DYIE		
	bite								
0/	16				1		Road Puta		
0	111 hit7	STATU	J_FAINO_1_2	foult			iteau byle		
	DIL7		Fall I	rning					
0(urning			Diagle Daged		
80	on	READ_I			5		BIOCK Read		
8	/h	READ_I	2001		5		Block Read		
		台達雷		限公	 司	DES	CRIPTION :		
	ELTA			IICS	. INC.	電氣規	現格 (Electrical Specific	cation	ı)
THESE DRA	WINGS AND S	PECIFICATIO	NS ARE THE PROPER		DELTA				
ELECTRONI	CS, INC. AND	SHALL NOT B	E REPRODUCED OR	USED	AS THE				
BASIS FOR	THE MANUFA	CTURE OR SE	LL OF APPARATUSE	S OR D	EVICES	D	PS-800AB-30 S		
	Date Drawn Design (FF) Design						_		
Date	Date Drawn Design (EE) Desig			gn (⋈౬)	DOC	UMENT NAME. :	R	EV.	
10/13/'21	D/13/21 金雨霞 曹鵬 賈			「曉東	E	S-800AB-30 S		S02	

-								
	88h		READ	VIN	2	Read	d Word	
	89h		READ	IIN	2	Read	d Word	
	8Bh		READ	VOUT	2	Read	d Word	
	8Ch		READ_	IOUT	2	Read	d Word	
	8Dh		READ_	TEMPERATUR	E_1 2	Read	d Word	
	8Eh		READ_	TEMPERATUR	E_2 2	Read	d Word	
	8Fh		READ_	TEMPERATUR	E_3 2	Read	d Word	
	90h		READ_	FAN_SPEED_1	2	Read	d Word	
	96h		READ_	POUT	2	Read	d Word	
	97h		READ_	PIN	2	Read	d Word	
	98h		PMBUS	_REVISION	1	Read	d Byte	
	99h		MFR_ID)	5	Read	d Byte	
	9Ah	1	MFR_N	IODEL	14	Read	d Byte	
	9Bh		MFR_R	EVISION	2	Read	d Byte	
	9Ch		MFR_P	N	14	Read	d Byte	
	9Eh		MFR_S	N	16	Read	d Byte	
	9Fh		APP_PI	ROFILE_SUPP	ORT 1	Read	d Byte	
	A6h		MFR_IC	DUT_MAX	2	Read	d Word	
	A7h		MFR_P	OUT_MAX	2	Read	d Word	
	C0h		MFR_N	IAX_TEMP_1	2	Read	d Word 📐	
	C1h		MFR_N	IAX_TEMP_2	2	Read	d Word	
	D0h		SMART	_ON_CONFIG	1	R/W	Byte	
Mfg D 2021/0	0ata & Time 09/27	e 0	9:12:00					
				DPS-800AB-30	D S FRU MEMO	RY MAP		
ITEM	ADDRESS		LUE	DI	ESCRIPTION		BLOCK TI	TLE
1	0,000		1	Common H	and or Format \	lorgion	Common H	aador
	0x00) 1	1					eauei
2	LOXO		1	Internal Use	e Area Starting	Offset		
3	0x02	2 0	0	Chassis Info	o Area Starting	Offset		
4	0x03	3 0	0	Board A	rea Starting Of	fset		
5	0x04	1 3	3	Product Info	o Area Starting	Offset		
6	0x05	5 11	В	MultiRecord	d Area Starting	Offset		
7	0x06	6 0	0	PAD), write as 00h			
8	0x07	240	FO	Common He	eader Checksur	n (zero		
					checksum)			
1	0x08	3 1	1					
2	0x09	35	23					
				구ᆇᅃᄽᆠ				
	SELI	ī [2]	ヨ建電 DELT/	于上美胶份月 A ELECTRON	限公司 IICS. INC.	TESCRIF 電氣規格 (E	lectrical Specific	ation)
THESE	DRAWINGS	AND SPE	CIFICATIO	NS ARE THE PROPER	RTY OF DELTA) .	
ELECTI BASIS	RONICS, INC. FOR THE MA	AND SH	ALL NOT E JRE OR SI	BE REPRODUCED OR ELL OF APPARATUSE	USED AS THE S OR DEVICES	DPS-8	300AB-30 S	
WITHO		ION.						
Da	ate	Drav	wn	Design (EE)	Design (ME)	1E) DOCUMENT NAME. : REV.		

3	0x0A	0	0						
4	0x0B	0	0						
5	0x0C	0	0						
6	0x0D	100	64						
7	0x0E	2	2						
8	0x0F	0	0						
9	0x10	0	0						
10	0x11	0	0						
11	0x12	0	0						
12	0x13	0	0						
13	0x14	0	0						
14	0x15	0	0						
15	0x16	18	12						
16	0x17	2	2						
1	0x18	1	1	Product A	Area Format Ver	sion	Product informa	ition Area	
2	0x19	8	8	Produ	uct Area Length				
3	0x1A	25	19	Lar	nguage Code				
4	0x1B	197	C5	Manufacture	ers Name Type/	Length			
5	0x1C	68	44		D				
6	0x1D	69	45		E				
7	0x1E	76	4C		L				
8	0x1F	84	54		Т				
9	0x20	65	41		A				
10	0x21	206	CE	Product I	Name Type/Len				
11	0x22	68	44		D				
12	0x23	80	50		<u>Р</u>				
13	0x24	83	53		S				
14	0x25	45	2D		-				
15	0x26	56	38		8				
16	0x27	48	30		0				
1/	0x28	48	30		0				
18	0x29	65	41		<u>A</u>				
19	UXZA	66	42		В				
20	0x2B	45	20		-				
21		51	33		3				
22		48	30		0				
23	0x2E	32	20						
24	UXZF	83	53		3				
		Ę	≩雷	子丁業股份有	限公司	DESCRIPT	ION :		
C	NELI	7			ICS. INC.	電氣規格 (El	ectrical Specific	ation)	
THESE	HESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DELTA					· ·	,		
ELECT	RONICS, INC.	AND SHA		IN NOT BE REPRODUCED OR USED AS THE					
WITHO	TOR THE MA	NUFACTU ON.	KE UR SI	ELL OF APPARATUSE	S OK DEVICES	DH2-8	UUAB-30 S		
Da	ate	Drav	vn	Design (EE) Design (ME) DOCUM			IENT NAME .: REV.		
10/13	3/'21	金雨	ī霞	曹鵬	賈曉東	ES-80	0AB-30 S	S02	

25	0x30	204	CC	Product Part/M	odel Number ty	pe/length				
26	0x31	. 68	44		D					
27	0x32	80	50		Р					
28	0x33	8 83	53		S					
29	0x34	56	38		8					
30	0x35	5 48	30		0					
31	0x36	6 48	30		0					
32	0x37	' 65	41		A					
33	0x38	66	42		В					
34	0x39	51	33		3					
35	0x3A	48	30		0					
36	0x3E	8 83	53		S					
37	0x3C	32	20							
38	0x3D) 195	C3	Product Ver	rsion No.Type/L	ength				
39	0x3E	88	58		X		To be upda	ated		
40	0x3F	88	58		X		To be upda	ated		
41	0x40) 70	46		F					
42	0x41	. 206	CE	Product Se	erial No.Type/Le	ength				
43	0x42	88	58		<u> </u>		To be upda	ated		
44	0x43	88	58		<u> </u>			ated		
45	0x44		58		<u> </u>		To be updated			
46	0x45		58		<u> </u>		To be upda	ated		
47	0x40		58		<u> </u>					
48	0x47		58		<u> </u>					
49 50	0x48		58		<u> </u>			ated		
50	0x45				<u> </u>			ated		
51	0x4/				<u>~</u>		To be updated			
52	0x40	> 00 > 00	50		<u> </u>			nted		
54	0x40		58		<u> </u>		To be updated			
			58		<u> </u>			ated		
56			58		×			ated		
57		192		Asset Ta	a type/length h	vte				
58	0x50	192		FRU File I	D type/length b					
59	0x52	· 192	C2	FW/ Versio	on No Type/Len	ath				
60	0x53	88	58	100 001310	X	igin	To be upda	ated		
61	0x54	88	58		X		To be upda	ated		
62	0x55	193	C1	Fi	nd of Fields					
		É	達電	子工業股份有	限公司	DESCRIPTI	ON :			
G	NELI	2	DELT	LECTRON	IICS. INC.	電氣規格 (El	ectrical Specifica	ation)		
THESE	DRAWINGS	AND SPEC	ECIFICATIONS ARE THE PROPERTY OF DELTA MODE							
ELECT	RONICS, INC.	AND SHA		BE REPRODUCED OR	USED AS THE	0 9DN				
WITHO	UT PERMISS	ION.				0-0-0	0040-30 3			
Da	ate	Drav	vn	Design (EE) Design (ME) DOCI			JMENT NAME. : REV.			
10/13	3/'21	金雨	ī霞	曹鵬	賈曉東	ES-800	-800AB-30 S S02			

63	0x56	0	0	PAC	(Always Zero)				
64	0x57	19	13	Product Info	Area Checksun checksum)	n (zero	To be update	ed	
	0x58	0	0	Record Type I II	D 0x00 = Powe nformation	r Supply	Multirecord He	ader	
	0x59	2	2	7:7 – End of list Form	6:4 – 000b 3: nat version = 2	0 – Record			
	0x5A	24	18	Record Le	ngth Of Multire	cord			
	0x5B	239	EF	Reco	ord Checksum				
	0x5C	247	F7	Hear	der Checksum				
0	0x5D	32	20	15:12 – Res	erved, write as (0000b	800\//		
1	0x5E	3	3	11:0 - Overall c	apacity (watts)	(LSB First)	00077		
2	0x5F	170	AA		Poak VA		1/50\//		
3	0x60	5	5				143077		
4	0x61	55	37	In	rush current		55A		
5	0x62	5	5	Inrusł	n interval in ms.		5mS		
6	0x63	40	28	Low end Input v	oltage range 1 ((10mV, LSB	001/		
7	0x64	35	23		First)		90V		
8	0x65	176	BO	High end Input v	oltage range 1	(10mV, LSB	1104		
9	0x66	54	36		First)		1404		
10	0x67	80	50	Low end Input v	oltage range 2 ((10mV, LSB 🤇			
11	0x68	70	46	First	, Zero if single range)		180V		
12	0x69	32	20	High end Input v	oltage range 2	(10mV, LSB	20.41/		
13	0x6A	103	67	First , Ze	ero if single rang	ge)	264V		
14	0x6B	47	2F	Low end In	put frequency r	ange	47Hz		
15	0x6C	63	3F	High end Ir	nput frequency	range	63Hz		
16	0x6D	10	Α	Input drop	out tolerance i	n ms	10mS		
				Binary flags: 7:5	– Reserved, writ	te as 0000b			
				4:4 – Tacl	nometer pulses	per			
			\mathbb{R}	rotation/Pre	dictive fail pin p	olarity			
17	0x6E	31	1F	3:3 – H	ot Swap Suppo	rt			
				2:2	– Autoswitch				
				1:1 - Pow	er factor correc	tion			
				0:0 - Pre	dictive fail supp	ort			
18	0x6F	110	6E	15:12 – Hol	d up time in see	conds	10mS		
19	0x70	163	A3	11:0 – Peak ca	pacity (watts) (l	SB First)	878W		
<u> </u>									
		4	☆霄	· 子丁業股份右	限公司	DESCRIPT	ION :		
C	NELT	<mark>מ</mark> [DELT/			電氣規格 (E	lectrical Specificat	ion)	
THESE		ND SPEC	CIFICATIO	ONS ARE THE PROPER	RTY OF DELTA	MODEL NO	D. :		
ELECTR BASIS F	RONICS, INC.	AND SHA		I BE REPRODUCED OR USED AS THE SELL OF APPARATUSES OR DEVICES			2000B-30 C		
WITHOU	JT PERMISSI	ON.					0.00-0-00.0	-	
Da	ate	Drav	vn	Design (EE) Design (ME) DOCUME			ENT NAME. : REV.		
10/13	/'21	金雨	ī霞	<u> 曹鵬</u> 曹藤東 ES-80			0AB-30 S S02		

	20	0x72	1	0	0	Combined Watta	age Byte 1: 7:4	1 – Voltage				
	01	0.7	2	0	0	1 3:	0 – Voltage 2					
-	21	0x72	2	0	0	Byte 2:3 Total	Combined Wat	tage (LSB				
-	22	0/1	5	0	0	Predictive fail ta	chometer lower	threshold				
	23	0x74	4	13	0D		(RPS)					
		0x75	5	1	1	[DC Output		Multirecord Hea	ader		
		0v7f	ŝ	2	2	7:7 – End of list	6:4 - 000b 3:	0 – Record				
		0// 0	_	2	2	Form	hat version = 2					
		0x7	7	13	D	Record Lei	ngth Of Multire	cord				
			5	134	86	Reco	ord Checksum					
		0x79	J	106	6A	Hear	der Checksum					
	0	0x7 <i>A</i>	4	1	1	+12V 7 : Standb Output	by = 0 , 6-4 - 00 Number = 000:	006,3-0: 18	+V12			
	1	0x78	3	176	B0	Nomina	l voltage (10 m	V)	12 OV			
	2	0x70	2	4	4	Norrini	i voltage (10 m	•)	12.0 V			
	3	0x7E)	116	74	Maximum ne	gative voltage(10 mV)	11.4V			
-	4	0x/1		4	4							
-	5		ר ר	230 1	EC /	Maximum po	ositive voltage(2	L0 mV)	12.6V			
-	7	0x8	1	4	78	Rinnle and Nois	e nk-nk 10Hz t	o 30 MHz 🔇				
	. 8	0x82	2	0	0		(mV)		120mV			
	9	0x83	3	0	0	N 41 1						
	10	0x84	4	0	0	Minimum	current draw (i	nA)	ÛA			
	11	0x85	5	232	E8	Maximum	current draw ($(m\Lambda)$	65.4			
	12	0x86	ô	253	FD	WIGAIITIGIT	Current araw ((117)	007			
		0x87	7	1	1]	DC Output		Multirecord Hea	ader		
		0x88	3	130	82	7:7 – End of list	6:4 – 000b 3:4	0 – Record				
						Form	hat version $= 2$					
		0x89	9	13	D	Record Lei	ngth Of Multire	cord				
		0x87	Α	19	13	Reco	ord Checksum					
		0x8E	3	93	5D	Hear	der Checksum					
	0	0x80	C	130	82	+12VSB 7 : Stanc Output	lby = 1 , 6-4 - (Number = 001(000b,3-0:)B	12VSB			
	1	0x8E)	176	BO	Nomina	l voltage (10 m	\/)	12 0\/			
	2	0x8I	E	4	4			*/	12.0 V			
_	3	0x8	F	116	74	Maximum ne	gative voltage(10 mV)	11.4V			
L	4	0x90)	4	4			,				
				Ľ	法面		阳公司	DESCRIPT				
						電氣規格 (E	lectrical Specificati	on)				
	THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DELTA				MODEL NO	D. :						
	BASIS	LECTRONICS, INC. AND SHALL NOT BE REPRODUCED OR USED AS THE SASIS FOR THE MANUFACTURE OR SELL OF APPARATUSES OR DEVICES			DPS-800AB-30 S							
	WITHO		ION	l <u>.</u>								
	Da	ate		Draw	/n	Design (EE) Design (ME) DOCUMENT			NT NAME. : REV.			
	10/13	3/'21		金雨	冟	曹鵬	買曉東	E2-80)0AB-30 S S02			

SHEET <u>29</u> OF <u>34</u>

5	0x91	L 236	EC	N A su instance of		0	10.01	
6	0x92	2 4	4	Maximum p	ositive voltage(.	LU MV)	12.6V	
7	0x93	3 120	78	Ripple and Nois	se pk-pk 10Hz t	o 30 MHz	100	
8	0x94	1 0	0		(mV)		120mV	
9	0x95	5 0	0			(1)	0.4	
10	0x96	5 0	0	Minimum	i current draw (i	nA)	UA	
11	0x97	208	D0	N4 ¹		•		
12	0x98	3 7	7	Maximum	n current draw (MA)	ZA	
0	0x99) 0	0	U	nused Area			
1	0x9A	A 0	0	U	nused Area			
2	0x9E	3 0	0	U	nused Area			
3	0x90	0	0	U	nused Area			
4	0x9D) 0	0	U	nused Area			
5	0x9E	E 0	0	U	nused Area			
6	0x9F	- 0	0	U	nused Area			
7	0xA0) 0	0	U	nused Area			
8	0xA1	L 0	0	U	nused Area			
9	0xA2	2 0	0	U	nused Area			
10	0xA3	3 0	0	U	nused Area			
11	0xA4	1 0	0	U	nused Area			
12	0xA5	5 0	0	U	nused Area			
13	0xA6	5 0	0	U	nused Area			
14	0xA7	7 0	0	U	nused Area			
15	0xA8	3 0	0	U	nused Area			
16	0xA9) ()	0	U	nused Area			
17	0xAA	۸ O	0	U	nused Area			
18	0xAE	3 0	0	U	nused Area			
19	0xAC	0	0	U	nused Area			
20	0xAC) 0	0	U	nused Area			
21	0xAE	E 0	0	U	nused Area			
22	0xAF	- 0	0	U	nused Area			
23	0xB0) 0	0	U	nused Area			
24	0xB1		0	U	nused Area			
25	0xB2	2 0	0	U	nused Area			
26	0xB3	3 0	0	U	nused Area			
27	0xB4	1 0	0	U	nused Area			
28	0xB5	5 0	0	U	nused Area			
29	0xB6	6 0	0	U	nused Area			
		f M	う 建電	子工業股份有 、 EL ECTRON		DESCKIPI 雷気相格 /E	IUN :	ation)
	THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DELTA				ILOS, INC.			
ELECT	LECTRONICS, INC. AND SHALL NOT BE REPRODUCED OR USED AS THE			MODEL NO. :				
BASIS	FOR THE MA		URE OR SI	ELL OF APPARATUSE	S OR DEVICES	DPS-8	300AB-30 S	
	ate	Nrai Drai	wn	Design (FF)	Design (ME)			
10/13	3/121	金国	时段	晋 鵬	買暁鬼	⊂ <i>⊃-</i> ⊘0	UAD-30 2	502

30	0xB7	7 0	0	U	nused Area	
31	0xB8	3 0	0	U	nused Area	
32	0xB9) ()	0	U	nused Area	
33	0xBA	A 0	0	U	nused Area	
34	OxBE	3 0	0	U	nused Area	
35	0xBC	0	0	U	nused Area	
36	0xBC) 0	0	U	nused Area	
37	OxBE	E 0	0	U	nused Area	
38	OxBF	- 0	0	U	nused Area	
39	0xC0) 0	0	U	nused Area	
40	0xC1	L 0	0	U	nused Area	
41	0xC2	2 0	0	U	nused Area	
42	0xC3	3 0	0	U	nused Area	
43	0xC4	4 0	0	U	nused Area	
44	0xC5	5 0	0	U	nused Area	
45	0xC6	6 0	0	U	nused Area	
46	0xC7	7 0	0	U	nused Area	
47	0xC8	3 0	0	U	nused Area	
48	0xC9) 0	0	U	nused Area	
49	0xCA	Α Ο	0	U	nused Area	
50	0xCE	3 0	0	U	nused Area	
51	0xCC	0	0	U	nused Area	
52	0xCD) 0	0	U	nused Area	
53	0xCE	E 0	0	U	nused Area	
54	0xCF	= 0	0	U	nused Area	
55	0xD0) 0	0	U	nused Area	
56	0xD1	L 0	0	U	nused Area	
57	0xD2	2 0	0	U	nused Area	
58	0xD3	3 0	0	U	nused Area	
59	0xD4	1 0	0	U	nused Area	
60	0xD5	5 0	0	U	nused Area	
61	0xD6	6 0	0	U	nused Area	
62	0xD7	7 0	0	U	nused Area	
63	0xD8	3 0	0	U	nused Area	
64	0xD9) 0	0	U	nused Area	
65	0xDA	λ Ο	0	U	nused Area	
66	0xDE	3 0	0	U	nused Area	
67	0xDC	0	0	U	nused Area	
					— () —	
C	NEL I	É I	電氣規格 (Electrical Specification)			
THESE	THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DELTA				RTY OF DELTA	
ELECT BASIS	ELECTRONICS, INC. AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SELL OF APPARATUSES OR DEVICES				USED AS THE S OR DEVICES	DPS-800AB-30 S
WITHO	UT PERMISS	ION.		1		
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63 0xDE 0 Unused Area 71 0xE0 0 Unused Area 72 0xE1 0 Unused Area 73 0xE2 0 Unused Area 73 0xE2 0 Unused Area 74 0xE3 0 Unused Area 75 0xE4 0 Unused Area 76 0xE5 0 Unused Area 77 0xE6 0 Unused Area 78 0xE7 0 Unused Area 79 0xE8 0 Unused Area 80 0xE7 0 Unused Area 81 0xE4 0 Unused Area 81 0xE6 0 Unused Area 82 0xE8 0 Unused Area 83 0xE7 0 Unused Area 84 0xE0 0 Unused Area 84 0xE7 0 Unused Area 90 0xF3 0 <t< th=""><th>68</th><th>0xDD</th><th>0</th><th>0</th><th>11</th><th>Inused Area</th><th></th><th>٦</th></t<>	68	0xDD	0	0	11	Inused Area		٦
70 0xDF 0 Unused Area 71 0xE0 0 Unused Area	69	0xDE	0	0	U	nused Area		
71 0xE0 0 0 Unused Area 72 0xE1 0 0 Unused Area 73 0xE2 0 0 Unused Area 74 0xE3 0 0 Unused Area 75 0xE4 0 0 Unused Area 76 0xE5 0 0 Unused Area 77 0xE6 0 0 Unused Area 79 0xE8 0 0 Unused Area 80 0xE9 0 Unused Area Image: Comparison of the analysis of the an	70	0xDF	0	0	U	nused Area		
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73 OXE2 0 0 Unused Area 74 OXE3 0 0 Unused Area 75 OXE4 0 0 Unused Area 76 OXE5 0 0 Unused Area 77 OXE6 0 0 Unused Area 78 OXE7 0 0 Unused Area 78 OXE7 0 0 Unused Area 80 OXE8 0 0 Unused Area 80 OXE8 0 0 Unused Area 81 OXEA 0 0 Unused Area 82 OXE8 0 0 Unused Area 83 OXEC 0 0 Unused Area 84 OXE9 0 0 Unused Area 85 OXF1 0 0 Unused Area 90 OXF3 0 0 Unused Area 91 OXF4 0 0 Unused Area 92 OXF5 0 0 Unused Area 92	72	0xE1	0	0	U	nused Area		
74 0xE3 0 Unused Area 75 0xE5 0 0 Unused Area 76 0xE5 0 0 Unused Area 77 0xE6 0 0 Unused Area 79 0xE8 0 0 Unused Area 80 0xE9 0 0 Unused Area 81 0xE4 0 0 Unused Area 81 0xE4 0 0 Unused Area 82 0xE0 0 Unused Area Image: Comparison of the comparis	73	0xE2	0	0	U	nused Area		
75 0xE4 0 Unused Area 76 0xE5 0 0 Unused Area 77 0xE6 0 0 Unused Area 78 0xE7 0 0 Unused Area 79 0xE8 0 0 Unused Area 80 0xE9 0 0 Unused Area 81 0xEA 0 0 Unused Area 82 0xEE 0 0 Unused Area 83 0xEE 0 0 Unused Area 84 0xEE 0 0 Unused Area 85 0xEE 0 0 Unused Area 86 0xF1 0 0 Unused Area 90 0xF3 0 0 Unused Area 91 0xF4 0 0 Unused Area 92 0xF5 0 0 Unused Area 93 0xF6 0 Unused Area 0	74	0xE3	0	0	U	nused Area		
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79 OxE8 0 Unused Area 80 OxE9 0 Unused Area	78	0xE7	0	0	U	nused Area		
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83 OxEC 0 Unused Area 84 OxED 0 Unused Area	82	0xEB	0	0	U	nused Area		
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台達電子工業股份有限公司 DESCRIPTION: DELTA ELECTRONICS, INC. 電氣規格 (Electrical Specification) THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DELTA 電気規格 (Electrical Specification) THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DELTA MODEL NO.: ELECTRONICS, INC. AND SHALL NOT BE REPRODUCED OR USED AS THE MODEL NO.: BASIS FOR THE MANUFACTURE OR SELL OF APPARATUSES OR DEVICES DPS-800AB-30 S WITHOUT PERMISSION. Date Drawn Date Drawn Design (EE) Design (ME) 10/13/21 金雨露 曹鵬 賈藤東 FS-800AB-30 S	102	0xFF	0	0	U	nused Area		
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THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DELTA ELECTRONICS, INC. AND SHALL NOT BE REPRODUCED OR USED AS THE MODEL NO. : BASIS FOR THE MANUFACTURE OR SELL OF APPARATUSES OR DEVICES DPS-800AB-30 S WITHOUT PERMISSION. Design (EE) Design (ME) Date Drawn Design (EE) Design (ME) 10/13/21 金雨霞 曹鵬 賈曉東 FS-800AB-30 S	C	SELI	ן <mark>מ</mark>	コ建电 DELTA	了工業成仍有 A ELECTRON	IICS, INC.	電氣規格 (Electrical Specification)	
Date Drawn Design (EE) Design (ME) DOCUMENT NAME. REV. 10/13/21 金雨霞 曹鵬 賈曉東 FS-800AB-30 S S02	THESE ELECTI BASIS	THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DELTA ELECTRONICS, INC. AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SELL OF APPARATUSES OR DEVICES WITHOUT PERMISSION.					MODEL NO. : DPS-800AB-30 S	
10/13/21 金雨露 曹鵬 賈曉東 FS-800AB-30 S S02	Da	ate	Drav	vn	Design (EE)	Design (ME)	DOCUMENT NAME · REV.	
	10/13	3/'21	金雨	ī霄	曹鵬	曹曉東	ES-800AB-30 S	2

Table	Table showing DPS-800AB-30 S HEX information.									2021/09/27					I	Rev.V00
Addr	0	1	2	3	4	5	6	7	8	9	Α	В	С	D	Е	F
0	01	01	00	00	03	0B	00	F0	01	23	00	00	00	64	02	00
1	00	00	00	00	00	00	12	02	01	08	19	C5	44	45	4C	54
2	41	CE	44	50	53	2D	38	30	30	41	42	2D	33	30	20	53
3	СС	44	50	53	38	30	30	41	42	33	30	53	20	C3	58	58
4	46	CE	58	58	58	58	58	58	58	58	58	58	58	58	58	58
5	C0	C0	C2	58	58	C1	00	13	00	02	18	EF	F7	20	03	AA
6	05	37	05	28	23	B0	36	50	46	20	67	2F	3F	0A	1F	6E
7	A3	00	00	00	0D	01	02	0D	86	6A	01	B0	04	74	04	EC
8	04	78	00	00	00	E8	FD	01	82	0D	13	5D	82	B0	04	74
9	04	EC	04	78	00	00	00	D0	07	00	00	00	00	00	00	00
Α	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
В	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
С	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
D	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
Е	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
F	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

	台達電子工業股份有限公司	DESCRIPTION :			
SELTA	DELTA ELECTRONICS, INC.	電氣規格 (Electrical Specification)			
	PECIFICATIONS ARE THE PROPERTY OF DELTA	MODEL NO. :			
BASIS FOR THE MANUFA	CTURE OR SELL OF APPARATUSES OR DEVICES	DPS-800AB-30 S			
WITHOUT PERMISSION.					

Date	Drawn	Design (EE)	Design (ME)	DOCUMENT NAME. :	REV.
10/13/'21	金雨霞	曹鵬	賈曉東	ES-800AB-30 S	S02

SHEET <u>33</u> OF <u>34</u>

FRU DATA FOLLOW WITH SPEC LABEL

CHECK LIST

All data written to EEPROM should be ASCII code in hexadecimal format Notes : All of the check Sum are Calculated by Zero Check Sum

NO.	Item	Address	Byte	Decription	Value
1	Checksum1	07H	1	100H-(LowByte Sum(00H~06H))	F0
2	Checksum2	57H	1	100H-(LowByte Sum(08H~46H))	Update
3	Checksum3	5BH	1	100H-(LowByte Sum(4DH~64H))	EF
4	Checksum4	5CH	1	100H-(LowByte Sum(48H~4BH))	F7
5	Checksum5	78H	1	100H-(LowByte Sum(6AH~76H))	86
6	Checksum6	79H	1	100H-(LowByte Sum(65H~68H))	6A
7	Checksum7	8AH	1	100H-(LowByte Sum(7CH~88H))	13
8	Checksum8	8BH	1	100H-(LowByte Sum(77H~7AH))	5D
9	Manufacturer Name	1CH~20H	5	Use the ASCII Code	"DELTA"
10	Product Name	22H~2FH	14	Use the ASCII Code	"DPS-800AB-30 S"
11	PART/Model NO.	31H~3CH	12	Use the ASCII Code	DPS800AB30S
12	Product Version	3EH~40H	3	Use the ASCII Code	Update
13	Product Serial NO.	42H~4FH	14	Use the ASCII Code	Update
14	FW Version	53H~54H	2	Use the ASCII Code	Update
15	Unused Area	89H~FFH			0

	台達電	子工業股份有	限公司	DESCRIPTION :	
	DELTA	ELECTRON	IICS, INC.	電氣規格 (Electrical Specification)	
THESE DRAWINGS	AND SPECIFICATION	MODEL NO. :			
BASIS FOR THE MA	ANUFACTURE OR SE	DPS-800AB-30 S			
WITHOUT PERMISS	SION.				
Date	Drawn	Design (EE)	Design (ME)	DOCUMENT NAME. :	REV.
10/13/'21	金雨霞	曹鵬	賈曉東	ES-800AB-30 S	S02

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