

TERMS AND CONDITIONS OF TENDERING (FOR QUOTATION WORKS)

1. Before tendering, the tenderer shall visit the site where the Works are to be carried out and shall also carefully examine the relevant Terms and Conditions of Contract, Drawings, Specification and all other accompanying schedules, etc.

If there is any ambiguity in or discrepancy between any of the documents, he / she should refer the matter to the Contract Administrator (C.A.), **ASSISTANT DIRECTOR OF PUSAT PERSIDANGAN ANTARABANGSA (ICC) MANAGEMENT**. The C.A.'s decision shall be final and binding upon the Contract.

On tendering, the tenderer shall be deemed to have examined the documents referred to above and shall be bound by the terms and conditions therein.

2. Every tenderer must submit together all documents listed below and this requirement shall be strictly adhered to prior to any consideration :-

- (a) Valid Tenderer's Registration Certificate from the Ministry of Development.
- (b) Business Enactment Act Section 16 & 17.
- (c) While for prospective vendors / suppliers of medicines and drugs bids must possess a valid Poison License from the Ministry of Health as stated in the 'Poison Act' (Cap. 114).
- (d) The Tender Form **MUST be signed by the Owner, or the Director of Shareholder(s) of the Company** stating their post and stamped with the Company's Official seal as detailed in the Business Enactment Act Section 16 & 17 / or the tenderer's Registration Certificate from the Ministry of Development and/or Ministry of Health.
- (e) The address indicated must be detailed as in the Business Enactment Act Section 16 & 17 / and/or Tenderer's Registration Certificate from the Ministry of Development and/or Ministry of Health. Any changes to the above must be officially referred to the Registrar of Companies and Business Names and a copy must be submitted to this department.

Tender documents must be duly completed, signed and dated. Any tender which is incomplete or unsigned will render the tender to be rejected.

3. (a) Tenders and documents in connection therewith as specified above , must be delivered to the place at or before the time specified.
(b) In the case of the tender not being delivered by hand, the tenderer must arrange for his / her tender and other documents to be posted in time to reach the stipulated place by not later than the time stated.
(c) In no case will the Government be responsible for any expense or loss incurred by a tenderer in the preparation of this tender.

Tenders shall remain valid for **6 MONTHS** from the final date for submission of the tenders and no tenderer may withdraw his/her tender within that period. The Government reserves the right to extend this period if deemed necessary provided that such extension of the tender validity period shall have the written consent of the tenderers.

4. The Government does not bind itself to accept the lowest and/or any tender and no reason will be given for rejecting any tender thereof.
5. Every correspondence to be given to a tenderer may be posted to the tenderer's address in the tender and such posting shall be deemed good and legally binding in service of such correspondence.
6. The tender shall be made on the basis of the rates in the tender documents being firm and not subject to any adjustment with variations in quantities.
7. The tender fee shall be **~~B\$5.00~~ / N/A ***. Only CASH TERMS will be accepted and note that this tender fee is non-refundable. Payment can only be made at the Pusat Persidangan Antarabangsa (ICC), Kementerian Hal Ehwal Luar Negeri, Jalan Stadium, Berakas, Bandar Seri Begawan, BB3910, Negara Brunei Darussalam during government working hours.
8. No unauthorised alteration or use of 'correction pen' in the tender documents is allowed, or the tender may be rejected. Any errors are to be struck off and initialled.
9. Non-compliance with the above terms and conditions in any respect may render the tender liable to be rejected.
10. The tender documents and forms are available from the **PUSAT PERSIDANGAN ANTARABANGSA (ICC), KEMENTERIAN HAL EHWAL LUAR NEGERI, JALAN STADIUM, BERAKAS, BANDAR SERI BEGAWAN, BB3910, NEGARA BRUNEI DARUSSALAM.**

The completed tender documents are to be lodged on or before **2:00 PM** on **SATURDAY, 22/06/2019** in a sealed enveloped addressed to :-

QUOTATION (QTN) BOX
PUSAT PERSIDANGAN ANTARABANGSA (ICC)
KEMENTERIAN HAL EHWAL LUAR NEGERI
JALAN STADIUM, BERAKAS, BANDAR SERI BEGAWAN, BB3910
NEGARA BRUNEI DARUSSALAM

The top part of the sealed envelope must be written stating the following :-

Quotation No. : **02 / MFA-ICC-Q/ 2019** Quotation Closing Date : **22 / 06 / 2019**
Project Title : **TO SUPPLY, DELIVER AND INSTALL NEW LED SWITCHABLE POWER UNITS AT MUSYAWARAH HALL ,
ICC BERAKAS, BRUNEI DARUSSALAM**

* Delete As Necessary



مکتوب حال احوال اور تکریم
MINISTRY OF FOREIGN AFFAIRS
BRUNEI DARUSSALAM

A	<input checked="" type="checkbox"/>	1. _____
	<input type="checkbox"/>	2. _____
	<input type="checkbox"/>	3. _____
FOR OFFICIAL USE ONLY		

Quotation For : **TO SUPPLY ,DELIVER AND INSTALL NEW LED SWITCHABLE POWER SUPPLY UNITS AT MUSYAWARAH HALL, ICC BERAKAS, BRUNEI DARUSSALAM**

Quotation No. : **02/MFA-ICC-Q/2019** Closed On : **22/6/2019** Receipt No. : _____

PART A – AGREEMENT

1.0 On behalf of _____ I, the undersigned, agree to carry out the above ~~Works / Service / Supply~~ * for a sum of B\$ _____ (Brunei Dollars _____)

(or),

At Schedule of Rates attached subject to the adjustment percentage of **an additional (+) / a deduction (-) *** _____ % with an approximate Maximum Contract Sum as stated in PART C - APPENDIX Item 6.0.

And,

within the Contract Period of **14** **Days / Weeks / Months *** in accordance with the terms and conditions below.

2.0 Owner / Director * 's : _____
Signature & Name : (_____)
IC No. : _____

2.1 Signature & Name of : _____
Witness : (_____)
IC No. : _____

2.2 Company : _____
Address : _____

2.3 Tel. No. : _____ Fax No. : _____ E-mail : _____

2.4 Date : _____

B
Company Stamp

ACCEPTANCE OF CONTRACT (FOR OFFICIAL USE ONLY)

3.0 On behalf of the Brunei Government, I accept your offer to carry out **all / items *** _____ of the above for a sum of B\$ _____ (Brunei Dollars _____)

(or),

At Schedule of Rates attached subject to the adjustment percentage of **an additional (+) / a deduction (-) *** _____ % with an approximate Maximum Contract Sum as stated in PART C - APPENDIX Item 6.0.

And,

within the Contract Period of **14** **Days / Weeks / Months *** in accordance with the terms and conditions below.

4.0 _____
(_____)

4.1 _____
For

4.2 Signature & Name of : _____
Witness : (_____)

4.3 Address : **PUSAT PERSIDANGAN ANTARABANGSA (ICC), KEMENTERIAN HAL EHWAL LUAR NEGERI, JALAN STADIUM, BERAKAS, BANDAR SERI BEGAWAN, BB3910, NEGARA BRUNEI DARUSSALAM**

4.4 Tel. No. : **2383374 / 2383386** Fax No. : **2261100 / 2262904** E-mail : **icc@mfa.gov.bn**

4.5 Date of Contract : _____ Approval No. : _____

4.6 The Contract Administrator is : **ASSISTANT DIRECTOR OF PUSAT PERSIDANGAN ANTARABANGSA (ICC) MANAGEMENT**

4.7 The Starting Date is on : _____

Note : An asterisk * indicates text that is to be deleted as appropriate.

C
Department Stamp

PART B - TERMS OF QUOTATION

1.0. BASIS OF QUOTATION, OVERALL OBLIGATIONS AND ADMINISTRATION

1.1 Overall Obligations of the Government:

- 1.1.1 To provide access at proper times for the Contractor to do his Works.
- 1.1.2 To provide all information and facilities stated in this Contract to enable the Contractor to do his Works.
- 1.1.3 To pay the Contractor as provided in this Contract.
- 1.1.4 To assign a Contract Administrator to administer this Contract.
- 1.1.5 May take out or renew collateral warranty and insurance as referred to in Clause 1.2.3 and Clause 1.2.4 below if the Contractor fails to do so.

1.2 Overall Obligations of the Contractor:

- 1.2.1 To finish the Works to the quality standards provided in this Contract within the Completion Date(s) and Contract Period provided in this Contract.
- 1.2.2 To cooperate with all other Contractors working on the project and not to disrupt them or cause damage to their Works.
- 1.2.3 To provide a collateral warranty containing a similar obligation as under this Contract directly to a third party if requested by the Contract Administrator.
- 1.2.4 To provide and maintain valid Contractor's all risks insurance policy at all times.

1.3 Instructions, Certifications & Job Orders

- 1.3.1 The Contract Administrator can issue instructions and certifications including Job Orders to the Contractor on anything relating to the Works.
- 1.3.2 All instructions, certifications and Job Orders must be in writing, dated and clearly identified as Contract Administrator's Instructions, Certifications and Job Orders.
- 1.3.3 For each Job Order, the Contract Administrator must state a commencement date and a reasonable date for its completion and the Contractor must complete each Job Order by that completion date.
- 1.3.4 The minimum and maximum of any one Job Order to be issued as stated in the Appendix Item 5.0 and the maximum to be issued must be capable of being carried out and completed within the Contract Period.
- 1.3.5 The Contractor must comply with all instructions, certifications and Job Orders issued by the Contract Administrator.
- 1.3.6 The Contract Administrator may arrange others to complete the Works if the Contractor fails to comply with Clause 1.3.5, and the Contractor shall pay for all extra costs incurred.

2.0. QUALITY, HEALTH, SAFETY AND ENVIRONMENT

2.1 Quality

- 2.1.1 The Contractor must do his Works based on the documents referred to in this Contract and other instructions and information given to him by the Contract Administrator.
- 2.1.2 If any of the Works is not done according to this Contract or if there is any other breach of this Contract by the Contractor, the Contract Administrator shall inform the Contractor of the shortfall(s) in writing. The Contractor must rectify the shortfall(s).
- 2.1.3 If the Contractor does not rectify the shortfall(s), the Contract Administrator may arrange others to rectify the shortfall(s). The Contract Administrator can also certify either :
 - (a) The cost of rectifying such shortfall(s); or
 - (b) The reduced value of the completed Works due to such shortfall(s)as provided in the Payment Certification Clause.
- 2.1.4 The Contract Administrator can continue to do this throughout the project and during the Defects Liability Period (as stated in the Appendix Item No. 3.0) after the Contract Administrator confirms the Works is complete as provided in the Completion Clause.

2.2 Health, Safety And Environment

- 2.2.1 The Contractor must keep the site clean and safe at all times.
- 2.2.2 The Contractor must comply with all laws and regulations relating to Health, Safety and Environment Act, if any.

3.0. TIME OBLIGATIONS

3.1 Starting, Progress and Finishing

- 3.1.1 If not stated in this Contract, the Contract Administrator will inform the Contractor when to start work in writing. The Contractor shall not be entitled to claim for any loss or damage caused by any delay of possession of site.
- 3.1.2 The Contractor must progress with the Works in a regular and diligent manner.

- 3.1.3 The Contract Administrator can instruct the Contractor to stop and restart at any time.
- 3.1.4 The Contractor must finish all the Works within the Completion Date(s) stated in this Contract or as instructed by the Contract Administrator.

3.2 Adjusting Time for Completion

- 3.2.1 If the Government or Contract Administrator or anyone within either of their responsibility or control (which includes other Contractors on site), or anything beyond the Contractor's control, disrupts the Contractor from finishing within the completion period, the Contract Administrator must assess the impact of this disruption on the Contractor's Works.
- 3.2.2 If any Completion Date(s) is affected the Contract Administrator must adjust the Completion Date(s).
- 3.2.3 This must be done in a written certificate clearly identified as Extension of Time Certificate.

3.3 Completion

- 3.3.1 When the Contractor practically completed all the Works, he shall inform the Contract Administrator stating he has completed.
- 3.3.2 The Contract Administrator must decide when the Works has actually practically completed by the Contractor.
- 3.3.3 This decision must be in a written certificate clearly identified as Certificate of Practical Completion.
- 3.3.4 The Contract Administrator must decide when all obligations of the Contractor are fully discharged.
- 3.3.5 This decision must be in a written certificate clearly identified as a Final Completion Certificate.
- 3.3.6 This must be done after the end of Defects Liability Period (as stated in the Appendix Item No. 3.0) or when the Contractor has rectified all the shortfall(s) including Works that is not according to this Contract and any other breach of Contract by the Contractor identified by the Contract Administrator, whichever is later.

3.4 Delayed Completion

- 3.4.1 If the Contractor does not finish by the date stated in the Contract or Job Order, he shall pay Liquidated and Ascertained Damages due to the delay to the Government as provided in the Payment Certification Clause.
- 3.4.2 Liquidated Damages is calculated for delay between when the Contractor should have completed the Works and when he actually completed the Works.

4.0. VARIATIONS TO WORK

- 4.1 The Contract Administrator can issue instructions to vary the Works to be done.
- 4.2 If the Contract Administrator instructs the Contractor to vary any of the Works and there is a financial impact, the Contract Administrator must certify the value of the variation work as provided in the Payment Certification Clause.
- 4.3 The Contract Administrator must value the variation work using the Summary of Works rates and/or adjusted Schedule of Rates. If neither are available then using fair market rates.
- 4.4 This shall be done in a written certificate clearly identified as Variation Order certificate.

5.0. PAYMENT CERTIFICATION

5.1 Claims and Payment Certificate

- 5.1.1 The Contractor must submit a claim for the Works done before any payment certificate can be issued.

5.2 Contents of Payment Certificate:

- 5.2.1 The payment certificate must include the following:
- 5.2.2 Add the following:
 - (a) Cumulative value of the Works done. This is valued based on Summary of Works rates and/or adjusted Schedule of Rates, if any. If none, then valued based on fair market rates.
 - (b) Value of variation work properly instructed by the Contract Administrator and properly done by the Contractor.
- 5.2.3 Deduct the following:
 - (a) Liquidated and Ascertained Damages which is calculated for delay between when the Contractor should have completed the Works and when he actually practically completed the Works.
 - (b) The value of any shortfall(s) due to Works done according to this Contract or due to any other breach of this Contract by the Contractor which the Contract Administrator has informed the Contractor. If the Contractor does not rectify the shortfall(s) the Contract Administrator can certify either:
 - (i) The cost of rectifying such shortfall(s) by others; or
 - (ii) The reduced value of the completed Works due to such shortfall(s) as stated in the Appendix.

- (c) A percentage of the sum of total additions above will be retained (as the Retention Sum) and released after the end of Defects Liability Period or when the Contractor rectified all the shortfall(s) including Works that are not done according to this Contract and any other breach of contract by the Contractor identified by the Contract Administrator.
- (d) The Net Amount Payable is the amount the Government must pay to the Contractor. This is calculated by:
 - (i) Adding the total under additions above;
 - (ii) Deducting the total of all deductions above; and
 - (iii) Deducting the cumulative amount certified previously.
- (e) The Contract Administrator may deduct any monies owed by the Contractor to the Government under this Contract or any contract(s) from the Contractor's payments.

6.0. TERMINATION OF CONTRACT

6.1 If the Contractor :

- (a) Suspends the Works before completion without any reasonable cause; and/or
- (b) Fails to proceed with the Works within the time stated in the Contract Administrator's Instructions; and/or
- (c) Fails to comply with the Contract Administrator's Instructions;

for fourteen (14) days after a notice sent to the Contractor, the Contract Administrator can determine this Contract by a written notice.

6.2 If the Contractor :

- (a) Becomes bankrupt; or
- (b) Goes into liquidation; or
- (c) Has offered or given or agreed to give to any person any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any action in relation to the obtaining or execution of this Contract with the Government, or for showing on forbearing to show favour or disfavour to any person in relation to this Contract or any other contract with the Government or the like acts shall have been done by any person employed by the Contractor or acting on his behalf (with or without the knowledge of the Contractor), or if, in relation to this Contract or any other contract with the Government, the Contractor, or any person employed by the Contractor or acting on his behalf shall have committed or abetted to commit an offence under the Prevention of Corruption Act (Chapter 131) or section 161, 162, 163, 164, 165, 213, 214 or 215 of the Penal Code (Chapter 22);

this Contract is terminated by a written notice.

6.3 In either (6.1) or (6.2) above, the Contract Administrator may complete the Works by other ways and the Contractor shall pay for all extra costs incurred.

6.4 Termination For Convenience :

- (a) The Government may at any time, give the Contractor a written notice to terminate the employment of the Contractor under the Contract and the Contractor shall immediately or upon such other date as specified in the written notice:
 - (i) cease all works under the Contract, which shall include, but be not limited to such work for the purpose of protecting, making safe or tidying up such part of the works as may already have been executed, or may be in the course of execution.
 - (ii) Vacate the site, remove all his plant, tools, equipment, goods and unfixed materials which have not been paid by the Government and hand back possession of the site to the Government.
- (b) In the event of termination under this Clause, Contract Administrator shall certify the amounts payable to the Contractor and the Contractor shall provide all reasonable assistance to the Contract Administrator. In the event that the Contractor does not submit the necessary information required, the Contract Administrator shall make his certification on the information available. The amount certified shall be paid by the Government less any sums previously paid or due to or recoverable by the Government from the Contractor.

PART C - APPENDIX

1.0	Completion Date : (If not stated, to be instructed by the Contract Administrator. If more than one completion period, identify the scope of Works for each completion period). For Term Contract, the Contract shall ends when the following conditions are met : (a) The actual expiration of the Contract Period; or (b) The limit of the Approximate Maximum Total Value of All Job Orders have been reached; whichever of the above comes first but subject to Clause 3.2 and Clause 4.0.	_____ / _____ / 2019
2.0	Liquidated and Ascertained Damages (LAD) : (If none stated, then the Contract Administrator may certify a reasonable sum as compensation for delay).	B\$ <u>15</u> per day
3.0	Shortfalls / Defects Liability Period : (If none stated, SIX (6) MONTHS from the date of completion).	_____ Months
4.0	Retention Sum : (If none stated, FIVE (5%) PERCENT of the Contract Sum).	<u>N / A</u> % of the Contract Sum
5.0	Minimum and Maximum Values of Job Orders : Minimum value of any one Job Order to be issued Maximum value of any one Job Order to be issued (If none stated, the maximum value to be issued must be capable of being carried out and completed within the Contract Period).	≤ B\$ <u>N / A</u> ≥ B\$ <u>N / A</u>
6.0	Approximate Maximum Total Value of All Job Orders for the Contract Period : (If not stated, NOT MORE THAN \$50,000.00 - BRUNEI DOLLARS FIFTY THOUSANDS) The Contract Administrator gives no warranty or undertaking as to the actual amount of Works that will be issued through Job Orders and no variance in the actual value of Works ordered shall give rise to a change in any rate, price or percentage adjustment.	≤ B\$ <u>N / A</u>

RINGKASAN TAWARAN
SUMMARY OF TENDER

Tajuk Projek
Project Title

: **TO SUPPLY, DELIVER AND INSTALL NEW LED SWITCHABLE POWER SUPPLY UNITS TO DEWAN MUSYAWARAH AT ICC BERAKAS, BRUNEI DARUSSALAM**

plac

: **02/ MFA-ICC-Q/2019**

Ruj. Permohonan
Request Ref.

:

02/A & P/MFA-ICC/2019

Muka
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Dari
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1

Bil. No.	Keterangan Description	Kuantiti Quantity	Unit Unit	Kadar Rate	Jumlah Amount (\$)
1.0	Remove all defective LED Switchable Power Supply Units.	1	LOT		
2.0	<p>Supply, deliver and install new 5V 60A - 300W 110 - 240V LED Switchable Power Supply Units (Please refer to Attachment A - Technical Specification) at Dewan Musyawarah:</p> <p>(a) Supply and install only (b) Supply only</p> <p>Please specify Brand, Make & Model : _____ / _____ / _____</p> <p>The above product should be at least come with a ONE (1) YEAR WARRANTY against manufacturing defects.</p> <p>Note :</p> <p>(a) The Contractor to ensure and ascertain the actual and correct supplied units / specification required on-site before placing any orders; (b) If the Contractor failed to do as in (a) above, the Contractor's shall rectify the order or any re-ordering at his/her own cost. (c) Works and rates to include customs duties, taxes and including any import charges, etc.; (d) Any necessary temporary works i.e. scaffolding/staging, formworks and supports and the likes required; (e) Removal of any temporary works, etc.; (f) Clearing and carting away of all debris and wastes off-site to Contractor's approved dumping site; and (g) Making good and general cleaning of all affected and disturbed area(s) including paint and finishes.</p>	4 6	NOS NOS		
JUMLAH KESELURUHAN BAGI RINGKASAN TAWARAN INI \$ TOTAL AMOUNT FOR THIS SUMMARY OF TENDER \$					

ATTACHMENT A – TECHNICAL SPECIFICATION



■ Features

- AC input range selectable by switch
- Withstand 300VAC surge input for 5 second
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- Built-in cooling Fan ON-OFF control
- 1U low profile
- Withstand 5G vibration test
- LED indicator for power on
- No load power consumption < 0.75W
- 100% full load burn-in test
- High operating temperature up to 70°C
- Operating altitude up to 5000 meters (Note.8)
- High efficiency, long life and high reliability
- 3 years warranty

■ Applications

- Industrial automation machinery
- Industrial control system
- Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus

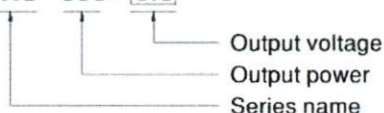
■ Description

LRS-350 series is a 350W single-output enclosed type power supply with 30mm of low profile design. Adopting the input of 115VAC or 230VAC (select by switch), the entire series provides an output voltage line of 3.3V, 4.2V, 5V, 12V, 15V, 24V, 36V and 48V.

In addition to the high efficiency up to 89%, with the built-in long life fan LRS-350 can work under -25~+70°C with full load. Delivering an extremely low no load power consumption (less than 0.75W), it allows the end system to easily meet the worldwide energy requirement. LRS-350 has the complete protection functions and 5G anti-vibration capability; it is complied with the international safety regulations such as UL60950-1. LRS-350 series serves as a high price-to-performance power supply solution for various industrial applications.

■ Model Encoding

LRS - 350 - 3.3



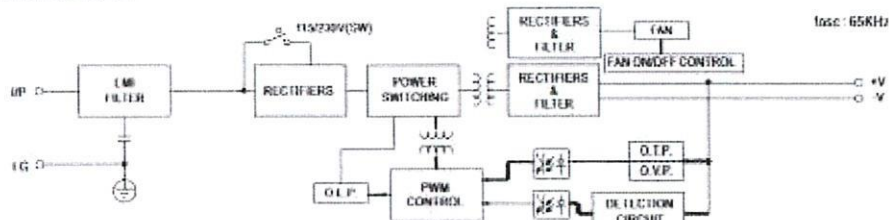
SPECIFICATION

MODEL		LRS-350-3.3	LRS-350-4.2	LRS-350-5	LRS-350-12	LRS-350-15	LRS-350-24	LRS-350-36	LRS-350-48	
OUTPUT	DC VOLTAGE	3.3V	4.2V	5V	12V	15V	24V	36V	48V	
	RATED CURRENT	60A	60A	60A	29A	23.2A	14.6A	9.7A	7.3A	
	CURRENT RANGE	0 ~ 60A	0 ~ 60A	0 ~ 60A	0 ~ 29A	0 ~ 23.2A	0 ~ 14.6A	0 ~ 9.7A	0 ~ 7.3A	
	RATED POWER	198W	252W	300W	348W	348W	350.4W	349.2W	350.4W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	2.97 ~ 3.6V	3.6 ~ 4.4V	4.5 ~ 5.5V	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8V	
	VOLTAGE TOLERANCE Note.3	±4.0%	±4.0%	±3.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION Note.5	±2.5%	±2.5%	±2.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	1300ms, 50ms/230VAC 1300ms,50ms/115VAC at full load								
HOLD UP TIME (Typ.)	16ms/230VAC 12ms/115VAC at full load									
INPUT	VOLTAGE RANGE	90 ~ 132VAC / 180 ~ 264VAC by switch				240 ~ 370VDC (switch on 230VAC)				
	FREQUENCY RANGE	47 ~ 63Hz								
	EFFICIENCY (Typ.)	79.5%	81.5%	83.5%	85%	86%	88%	88.5%	89%	
	AC CURRENT (Typ.)	6.8A/115VAC 3.4A/230VAC								
	INRUSH CURRENT (Typ.)	60A/115VAC 60A/230VAC								
	LEAKAGE CURRENT	<2mA / 240VAC								
PROTECTION	OVER LOAD	110 ~ 140% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	3.8 ~ 4.45V 4.6 ~ 5.4V 5.75 ~ 6.75V 13.8 ~ 16.2V 18 ~ 21V 28.8 ~ 33.6V 41.4 ~ 46.8V 55.2 ~ 64.8V Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	OVER TEMPERATURE	Hiccup mode, recovers automatically after fault condition is removed								
	FAN ON/OFF CONTROL (Typ.)	RTH3≥50℃ FAN ON, ≤40℃ FAN OFF								
ENVIRONMENT	WORKING TEMP.	-25 ~ +70℃ (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH								
SAFETY	SAFETY STANDARDS	UL60950-1, BSMI CNS14336-1, EAC TP TC 004 approved								
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC								
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC / 25℃ / 70% RH								
	EMC EMISSION	Compliance to BSMI CNS13438, EAC TP TC 020								
	EMC IMMUNITY	Compliance to EAC TP TC 020								
OTHERS	MTBF	327.9K hrs min. MIL-HDBK-217F (25℃)								
	DIMENSION	215*115*30mm (L*W*H)								
	PACKING	0.76Kg; 15pcs/12.4Kg/0.78CUFT								

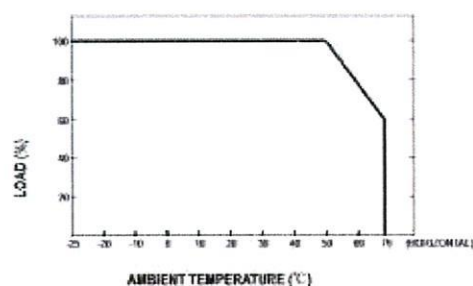
NOTE

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- Tolerance : includes set up tolerance, line regulation and load regulation.
- Line regulation is measured from low line to high line at rated load.
- Load regulation is measured from 0% to 100% rated load.
- Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.
- The 150% peak load capability is built in for up to 1 second for 12~48V.LRS-350 will enter hiccup mode if the peak load is delivered for over 1 second and will recover once it resumes to the rated current level(115VAC/230VAC).
- The ambient temperature derating of 5% /1000m is needed for operating altitude greater than 2000m(6500ft).
- This power supply does not meet the harmonic current requirements outlined by EN61000-3-2. Please do not use this power supply under the following conditions:
 - the end-devices is used within the European Union, and
 - the end devices is connected to public mains supply with 220Vac or greater rated nominal voltage, and
 - the power supply is:
 - installed in end-devices with average or continuous input power greater than 75W, or
 - belong to part of a lighting system
 Exception:
 Power supplies used within the following end-devices do not need to fulfill EN61000-3-2
 - professional equipment with a total rated input power greater than 1000W;
 - symmetrically controlled heating elements with a rated power less than or equal to 200W

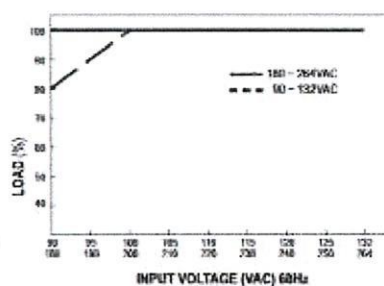
■ Block Diagram



■ Derating Curve

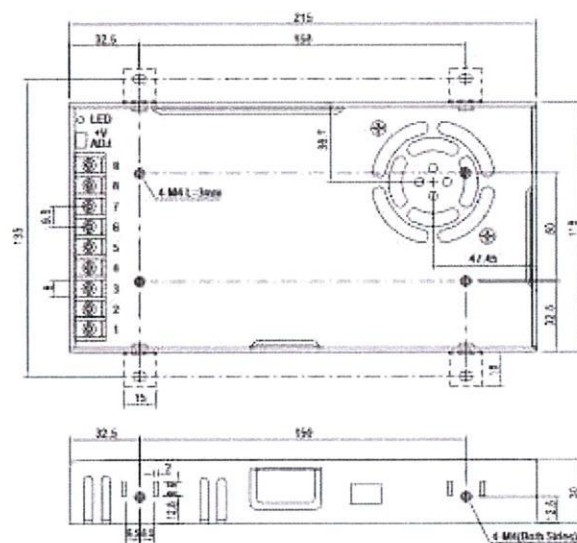


■ Static Characteristics



■ Mechanical Specification

Case No. 207A Unit: mm



Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4-6	DC OUTPUT +V
2	AC/N	7-9	DC OUTPUT +V
3	FG *		