

# 300A - 2500A, 28.5V DC DIGITAL LOAD BANKS WITH USB

## PRODUCT DESCRIPTION

Red Box provide a range of portable resistive load banks for civil and military aviation. The load banks provide a contained, organised and fully controllable load, with the highest quality components.

## ADVANTAGES OF RED BOX LOAD BANKS

- **Simple operation** suitable for non-trained operators
- **Silent operations** < 70 dB(A) at the distance of 7m / 23Ft
- Suitable for **workshop and/or airside operation**
- **Environmental operating temperature** from -20 °C to 55 °C / -4 °F to 122 °F
- **Transport casing** with pull up handle as standard for each load bank
- **Free licensed software application & proper drivers included**
- **All measurements possible to archive & printout, including diagram graphics**
- **Effective way of monitoring and displaying measurement data**
- **High instrument indication accuracy**
- Triple thermal protection - **extremely resistant** to high temperature
- **Cant protection** - load bank works only in horizontal position
- Aluminum housing and **non-corrosive parts**
- **High component quality control** by manufacturer
- **High reliability** - effective standardization process
- Isolated jack sockets - **unique user friendly safety feature** for external voltage test
- Spare parts availability and **accurate on-time deliveries**
- **Short worldwide delivery period** with tracking feature & insurance
- **2 years full warranty with extension option** for all load banks
- CE certification - health, safety, and environmental protection standards
- Made for GPU's testing procedure according to ISO 6858, DFS 400, ARP 5015
- Classification CE marking, DIN, VDE, IEC, IP 21 protection rate level



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TECHNICAL SPECIFICATION	RDB-03DU	RDB-R-15DU	RDB-R-20DU	RDB-R-25DU
VOLTAGE [V] * FREQUENCY [Hz]	115 / 200 V AC ± 10 % * 400 Hz ± 10 %			
LOAD REGIME OPTIONS [A]	300 A ± 20 %	300 A OR 600 A CONTINUOUS & 1500 A ± 20 % ESS PROCEDURE	300 A OR 600 A CONTINUOUS & 2000 A ± 20 % ESS PROCEDURE	300 A CONTINUOUS OR 1400 A, 2500 A ± 20 % ESS PROCEDURE
LOAD TEST PROCEDURE TYPE	/	AIRCRAFT ENGINE START SIMULATION (ESS) in duration of 35 seconds DECREASING		
LOAD TEST SPECIFICATION AT 28.5 V DC [CONTINUOUS & DECREASING]	/	SEQUENCE OF 6 STEPS ENGINE START SIMULATION  Step 1: 1500 A for ☉ 1 second Step 2: 1200 A for ☉ 3 seconds Step 3: 1000 A for ☉ 10 seconds Step 4: 800 A for ☉ 20 seconds Step 5: 700 A for ☉ 30 seconds Step 6: 400 A for ☉ 35 seconds	SEQUENCE OF 6 STEPS ENGINE START SIMULATION  Step 1: 2000 A for ☉ 1 second Step 2: 1700 A for ☉ 3 seconds Step 3: 1200 A for ☉ 10 seconds Step 4: 1000 A for ☉ 20 seconds Step 5: 700 A for ☉ 30 seconds Step 6: 400 A for ☉ 35 seconds	SEQUENCE OF 6 STEPS ENGINE START SIMULATION  Step 1: 2500 A for ☉ 1 second Step 2: 1900 A for ☉ 3 seconds Step 3: 1300 A for ☉ 10 seconds Step 4: 1000 A for ☉ 20 seconds Step 5: 700 A for ☉ 30 seconds Step 6: 400 A for ☉ 35 seconds
LOAD TEST SPECIFICATION AT 28.5 V DC [CONTINUOUS - SELECTED MANUALLY]	300 A CONTINUOUS LOAD	300 A CONTINUOUS LOAD 600 A CONTINUOUS LOAD	300 A CONTINUOUS LOAD 600 A CONTINUOUS LOAD	300 A CONTINUOUS LOAD
[DECREASING ESS - SELECTED MANUALLY]	/	1500 A DECREASING ESS	2000 A DECREASING ESS	1400 A or 2500 A DECREASING ESS
FORCED AIR COOLING [m3/min & CFM]	22.05 m3/min - 780 CFM	44.10 m3/min - 1560 CFM	44.10 m3/min - 1560 CFM	44.10 m3/min - 1560 CFM
MEASUREMENTS & INDICATIONS				
DIGITAL POWER METER PARAMETERS WiFi & USB INTERFACE SPECIFICATIONS	3 LINE HIGH BRIGHTNESS RED LED DISPLAY CLASS: ±0.5 % FS + 2C; DISPLAYED: V / A / kW WiFi NETWORK OR USB PLUG IN CONNECTION FOR DATA PRINTOUT/ARCHIVE, INCLUDING FREE LICENSED SOFTWARE & USB CABLE			
LIGHT INDICATION	28.5 V DC POWER INDICATION, FAILURE INDICATOR			
GPU TESTING PROCEDURE AND ENGINE DECARBONISING PROPOSAL(*)	*LOAD 300A for ☉ 20 minutes	*LOAD 300 A or 600 A ☉ 30 / 15 minutes ESS in 6 STEPS 100% - 0% ☉ 35 seconds		
OPERATING TEMPERATURE [oC / oF]	from -20 oC to 55 oC / from -4 oF to 122 oF			
NOISE LEVEL [dB] AT DISTANCE [m/Ft]	< 70 dB(A) at the distance of 7m / 23Ft			
DIMENSIONS & WEIGHT				
LOAD BANK SIZE [L x W x H] mm / Kg LOAD BANK SIZE [L x W x H] In / Lbs	570 x 230 x 450 / 18 22.5 x 9 x 18 / 39	570 x 230 x 450 / 20 22.5 x 9 x 18 / 44	570 x 230 x 450 / 25 22.5 x 9 x 18 / 55	570 x 230 x 450 / 26 22.5 x 9 x 18 / 57
TRANSPORT CASING [L x W x H] mm / Kg TRANSPORT CASING [L x W x H] In / Lbs	620 x 280 x 690 / 17 24.4 x 11 x 27.2 / 37	620 x 280 x 690 / 17 24.4 x 11 x 27.2 / 37	620 x 280 x 690 / 17 24.4 x 11 x 27.2 / 37	620 x 280 x 690 / 17 24.4 x 11 x 27.2 / 37
LOAD BANK PAINTING / TRANSPORT CASING	POWDER COATING FINE STRUCTURE 71319 IGP, SWISS QUALITY / HIGH GRADE ALUMINUM			
Including transport carrying case per unit / All specifications are subject to change without further notice				