



# DEKAL LOAD BANKS®

DEKAL POWER LLC  
UL. LUDVIKA PLAMBERGERJA 25  
SI-2204 MIKLAVZ NA DR. POLJU  
SLOVENIA - EUROPE



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2000 TECHNOLOGY DRIVE  
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## PORTABLE RESISTIVE 400 Hz LOAD BANKS - DIGITAL USB

SPECIFICALLY DESIGNED RUGGED UNITS USED FOR THE TESTING AND SERVICING OF 400 Hz 115 / 200 V GPUS



| TECHNICAL SPECIFICATION   | ALB-45DU   | ALB-80DU   | ALB-100DU  | ALB-120DU  | ALB-140DU  |
|---|--|--|--|--|--|
| VOLTAGE [V] * FREQUENCY [Hz]  | 115 / 200 V AC ± 10 % * 400 Hz ± 10 %  |  |  |  |  |
| LOAD / POWER [kW / kVA cosφ=1]  | 0 - 48 kW ± 5 %  | 0 - 80 kW ± 5 %  | 0 - 104 kW ± 5 %   | 0 - 120 kW ± 5 %   | 0 - 144 kW ± 5 %   |
| FINE ADJUSTMENT - POTENTIOMETER   | 0 - 8 kW   | 0 - 8 kW   | 0 - 8 kW   | 0 - 8 kW   | 0 - 8 kW   |
| RATE SWITCH REG. LOAD STEPS ± 5%<br>ROUGH ADJUSTMENTS - 8 kW STEPS<br>POWER [kW / kVA cosφ=1] | <b>5 SEQUENCE STEPS:</b><br>08 - 16 kW<br>16 - 24 kW<br>24 - 32 kW<br>32 - 40 kW<br>40 - 48 kW   | <b>9 SEQUENCE STEPS:</b><br>08 - 16 kW<br>16 - 24 kW<br>24 - 32 kW<br>32 - 40 kW<br>40 - 48 kW<br>48 - 56 kW<br>56 - 64 kW<br>64 - 72 kW<br>72 - 80 kW | <b>12 SEQUENCE STEPS:</b><br>08 - 16 kW<br>16 - 24 kW<br>24 - 32 kW<br>32 - 40 kW<br>40 - 48 kW<br>48 - 56 kW<br>56 - 64 kW<br>64 - 72 kW<br>72 - 80 kW<br>80 - 88 kW<br>88 - 96 kW<br>96 - 104 kW | <b>14 SEQUENCE STEPS:</b><br>08 - 16 kW<br>16 - 24 kW<br>24 - 32 kW<br>32 - 40 kW<br>40 - 48 kW<br>48 - 56 kW<br>56 - 64 kW<br>64 - 72 kW<br>72 - 80 kW<br>80 - 88 kW<br>88 - 96 kW<br>96 - 104 kW<br>104 - 112 kW<br>112 - 120 kW | <b>17 SEQUENCE STEPS:</b><br>08 - 16 kW<br>16 - 24 kW<br>24 - 32 kW<br>32 - 40 kW<br>40 - 48 kW<br>48 - 56 kW<br>56 - 64 kW<br>64 - 72 kW<br>72 - 80 kW<br>80 - 88 kW<br>88 - 96 kW<br>96 - 104 kW<br>104 - 112 kW<br>112 - 120 kW<br>120 - 128 kW<br>128 - 136 kW<br>136 - 144 kW |
| FORCED AIR COOLING [m³/min & CFM]   | 44.10 m³/min - 1560 CFM  | 66.15 m³/min - 2340 CFM  | 88.20 m³/min - 3120 CFM  | 88.20 m³/min - 3120 CFM  | 88.20 m³/min - 3120 CFM  |
| <b>MEASUREMENTS &amp; INDICATIONS</b>   |  |  |  |  |  |
| DIGITAL POWER METER PARAMETERS<br>USB INTERFACE SPECIFICATIONS                                | 3 LINE HIGH BRIGHTNESS RED LED DISPLAY CLASS: ±0.5 %; S ACC. IEC 62053-22:2003; DISPLAYED: V / A / Hz / cosφ=1 / kW / kVA;<br>USB PLUG-IN CONNECTION FOR DATA PRINTOUT / ARCHIVE, INCLUDING FREE DEKAL LICENSED SOFTWARE & USB CABLE |  |  |  |  |
| LIGHT INDICATION  | PHASE INDICATION, PHASE ROTATION, INTERLOCK CIRCUIT [E&F]  |  |  |  |  |
| GPU TESTING PROCEDURE*  | *Proposal procedure: LOAD raising from 0→100% ⊕30 seconds; HOLD at 100% ⊕5 minutes; LOAD decrease from 100→0% ⊕10 minutes  |  |  |  |  |
| ENGINE DECARBONISING*   | *Proposal procedure: LOAD raising from 0→100% ⊕30 seconds; HOLD at 100% ⊕45 minutes; LOAD decrease from 100→0% ⊕15 minutes   |  |  |  |  |
| <b>DIMENSIONS &amp; WEIGHT</b>  |  |  |  |  |  |
| LOAD BANK SIZE [L x W x H] mm / Kg  | 600 x 230 x 630 / 26   | 600 x 230 x 630 / 28   | 600 x 230 x 630 / 31   | 600 x 230 x 630 / 34   | 600 x 230 x 630 / 36   |
| LOAD BANK SIZE [L x W x H] In / Lbs   | 23.6 x 9.05 x 24.8 / 55  | 23.6 x 9.05 x 24.8 / 59  | 23.6 x 9.05 x 24.8 / 66  | 23.6 x 9.05 x 24.8 / 75  | 23.6 x 9.05 x 24.8 / 77  |
| TRANSPORT CASING [L x W x H] mm / Kg  | 710 x 290 x 860 / 19   | 710 x 290 x 860 / 19   | 710 x 290 x 860 / 19   | 710 x 290 x 860 / 19   | 710 x 290 x 860 / 19   |
| TRANSPORT CASING [L x W x H] In / Lbs   | 27.9 x 11.4 x 33.9 / 42  | 27.9 x 11.4 x 33.9 / 42  | 27.9 x 11.4 x 33.9 / 42  | 27.9 x 11.4 x 33.9 / 42  | 27.9 x 11.4 x 33.9 / 42  |
| LOAD BANK PAINTING / TRANSPORT CASING   | FINE POWDER COATING STRUCTURE DRYLAC® 29_80081 / ALUMINIUM FRAME WITH BLACK LAMINATED PLYWOOD PANEL  |  |  |  |  |

Including transport carrying case per unit / All specifications are subject to change without further notice



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## ADVANTAGES of 400Hz AC LOAD BANK

- **Simple operation** suitable for non-trained operators and personnel; no maintenance required
- Suitable for **workshop or airside** operation; silent unit rated at <70 dB(A) at 7m / 23Ft
- **Cant protection** - load bank works only when positioned on flat horizontal surface
- **Phase detection and rotation indicator** - ABC availability, sequence of three-phase voltage
- **Fine load regulation knob as standard for complete series of 400 Hz AC** load banks
- **Digital load banks do not require any further calibration process once delivered**
- **Free DEKAL licensed software application and proper drivers included**
- **All measurements possible to archive and printout, including diagram graphics**
- **In accordance & fully complied with AFI 33-115 volume 2, Certified by: SAF A6C**
- 400 AC Hz 6-Pole receptacle **in accordance with NATO & MIL-C-81790** specification
- **Equipped with 28.5 V DC control circuit for E&F** and applicable bypass **interlock circuit**
- Housing made of **non-corrosive parts with component quality control** by the manufacturer
- **High reliability with multiple thermal protection** - extremely resistant to high temperature
- **Extra safety and isolated jack sockets** for connecting external voltage measuring device
- **Short worldwide delivery period** with tracking feature and insurance for all products
- Spare parts availability and **accurate on-time deliveries** by appointed courier
- **Transport casing** with pull up handle as standard for every load bank manufactured
- **2 years full warranty with extension option** for all DEKAL 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
- Customs classification **Harmonized System tariff code HS: 8516808000**

