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Data Sheet

August 13, 2026

LAMBDA / TDK / EMI

Lambda / TDK / EMI ESS150-100-11-D-1413

Lambda / TDK / EMI DC Power Supplies. Voltage: ** 150 Vdc maximum, Current: ** 100 Adc maximum.

**MODEL****Lambda / TDK /
EMI ESS150-100-
11-D-1413****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****ESS150-100-11-D-
1413****LISTING**[https://aumictechlabs.c
om/products/ess150-10
0-11-d-1413-2/](https://aumictechlabs.com/products/ess150-100-11-d-1413-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Lambda/TDK/EMI ESS150-100-11-D-1413 is a 15 kW programmable DC power supply engineered for high-power applications demanding stable, reliable output. This ESS series unit delivers 150 Vdc at 100 Adc with dual-mode operation in constant voltage (CV) and constant current (CC) with automatic crossover. Pulse-by-pulse current limiting ensures performance in high-current scenarios including RF amplifiers, DC motor testing, and magnetic coil energization. Technical Specifications Output Power: 15 kW Output Voltage: 150 Vdc maximum Output Current: 100 Adc maximum Efficiency: 85% Power Factor: 0.9 Output Ripple: 120 mV RMS (5 Hz–1 MHz) Operating Temperature: 0°C to 50°C continuous; derates 4% per °C above 50°C Storage Temperature: –55°C to 85°C Voltage Temperature Coefficient: 0.02% per °C of rated output Current Temperature Coefficient: 0.03% per °C of rated output Stability: ±0.05% maximum deviation over 8 hours at constant line, load, and temperature Voltage Regulation (CV Mode): <0.1% for 100% load current change Current Regulation (CC Mode): <0.1% for 100% load voltage

change Line Regulation: <0.1% across full AC input range in both CV and CC modes Transient Response: <650 microseconds for 30% load step (units above 20 V scaled as $V_{max}/20$) Key Features Ten-turn potentiometers for voltage and current adjustment Dual meters for simultaneous output voltage and current indication LED status indicators: Overvoltage Condition, Inverter Failure, Phase Loss, Control Failure Analog programming via 0–5 Vdc interface (standard) Optional RS232/IEEE 488 interface via RSTL controller board Compact form factor with high reliability heritage since 1995 Typical Applications RF amplifier testing, DC motor characterization, magnetic coil energization, and high-current load simulation requiring precision voltage or current sourcing. Compatibility & Integration Supports AC input configurations including 3-phase (190–250 Vac to 432–528 Vac) and single-phase options. Remote control via analog 0–5 Vdc command lines and optional RSTL interface for automated test environments.

Features & description

From manufacturer datasheet

Features

- Decoder identity 150 V, 100 A, 15000 W class

ESS15010011D1413 Characteristics / Specifications

PARAMETER	VALUE
Model	ESS150-100-11-D-1413
Manufacturer	Lambda EMI / TDK-Lambda
Instrument Type	High Power DC Power Supply
Series	ESS
Alias	ESS150-100-11-D-1413; ESS 150-100; EMI ESS150-100
Rated Output Voltage	0 to 150 Vdc (decoder)
Rated Output Current	0 to 100 A (decoder)
Rated Power Class	15000 W (150 V x 100 A)
Output Mode	CV/CC automatic crossover
Programming Common	TCR, EMS, EMHP analog class
Table Note	live TDK ESS web table has no ESS 150-100 row; confirm V/I on the nameplate
Neighbor 15 kW ESS 125 1	0-125 V, 0-120 A, 75 mV p-p PARD
Neighbor 15 kW ESS 160	0-160 V, 0-93 A, 75 mV p-p PARD
Neighbor 10 kW ESS 100 1	0-100 V, 0-100 A, 75 mV p-p PARD
Suffix 11 D	EMI option/input/meter dash code; D commonly meter package
Special Suffix	1413 factory special/program code; confirm against the nameplate
Form	high-power rack or cabinet
Cooling	forced air class ESS
Remote Program	analog resistance/voltage/current class
Digital Optional	RSTL / IEEE-488 class on EMI high-power options
Protection	overcurrent and overvoltage class
Meters	front-panelVandImetering
AC Input	three-phase high-power ESS; confirm 208/480 Vac on the nameplate
Duty	continuous high-power DC source

PARAMETER	VALUE
Ripple	not published on an ESS 150-100 web row; do not copy 75 mV from 125/160 V neighbors unless the installed ESS sheet states it
Related Genesys 150 V	GEN 150-10 is Genesys 1.5 kW, not this ESS 15 kW class
Identity	ESS series, not Genesys and not EMHP 150-130 / 150-200 Notes Verified decoder V/I is 150 V / 100 A (15 kW class). The live TDK ESS grid does not list ESS 150-100. Confirm suffix 11-D, special 1413, AC input, and ripple on the nameplate and ESS OEM sheet. Do not invent PARD millivolts.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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PARAMETER	VALUE
Model	ESS150-100-11-D-1413
Manufacturer	Lambda EMI / TDK-Lambda
Instrument Type	High Power DC Power Supply
Specifications	
PARAMETER	VALUE
Series	ESS
Alias	ESS150-100-11-D-1413; ESS 150-100; EMI ESS150-100
Rated Output Voltage	0 to 150 Vdc (decoder)
Specifications	
PARAMETER	VALUE
Rated Output Current	0 to 100 A (decoder)
Rated Power Class	15000 W (150 V x 100 A)
Output Mode	CV/CC automatic crossover
Specifications	
PARAMETER	VALUE
Programming Common	TCR, EMS, EMHP analog class
Table Note	live TDK ESS web table has no ESS 150-100 row; confirm V/I on the nameplate
Neighbor 15 kW ESS 125 120	0-125 V, 0-120 A, 75 mV p-p PARD
Specifications	
PARAMETER	VALUE
Neighbor 15 kW ESS 160 93	0-160 V, 0-93 A, 75 mV p-p PARD
Neighbor 10 kW ESS 100 100	0-100 V, 0-100 A, 75 mV p-p PARD
Suffix 11 D	EMI option/input/meter dash code; D commonly meter package

Specifications

PARAMETER	VALUE
Special Suffix	1413 factory special/program code; confirm against the nameplate
Form	high-power rack or cabinet
Cooling	forced air class ESS

Specifications

PARAMETER	VALUE
Remote Program	analog resistance/voltage/current class
Digital Optional	RSTL / IEEE-488 class on EMI high-power options
Protection	overcurrent and overvoltage class

Specifications

PARAMETER	VALUE
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AC Input	three-phase high-power ESS; confirm 208/480 Vac on the nameplate
Duty	continuous high-power DC source

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PARAMETER	VALUE
Ripple	not published on an ESS 150-100 web row; do not copy 75 mV from 125/160 V neighbors unless the installed ESS sheet states it
Related Genesys 150 V	GEN 150-10 is Genesys 1.5 kW, not this ESS 15 kW class
Identity	ESS series, not Genesys and not EMHP 150-130 / 150-200

Notes

Verified decoder V/I is 150 V / 100 A (15 kW class). The live TDK ESS grid does not list ESS 150-100. Confirm suffix 11-D, special 1413, AC input, and ripple on the nameplate and ESS OEM sheet. Do not invent PARD millivolts.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.