

## DC/DC CONVERTERS DC-SD SERIES



DC / DC converters of this class are used to power utilities in DC with constant voltage, when a source having variable performance is provided such as batteries that need charging curves with voltage values not always acceptable by the loads.

### APPLICATIONS:

Oil & Gas  
Energy production and distribution  
Process controls  
Transportation  
Safety  
Telecommunications  
Tertiary

### PRODUCT PLUS:

- Static Converter
- Configuration: STEP-DOWN
- Control Type: High Frequency PWM
- I/O insulation: not insulated
- Pass-through negative pole
- ON/OFF type forced ventilation
- DIN terminal rail blocks for I/O/ALARMS connections

### SINGLE-LINE DIAGRAM



MODEL		DC-SD			
OUTPUT	NOMINAL VOLTAGE (V)	12	24	48	110
	CURRENT RANGE	10 ÷ 60A			
	MAXIMUM POWER (W)	720	1440	2880	6600
	RIPPLE NOISE (RMS)	≤ 0.3% Vn			
	Vout SETTING RANGE	+/- 5%			
	STABILITY	+/- 1%			
	Vin VARIATION SETTING	+/- 1%			
	LOAD VARIATION SETTING	+/- 1%			
	START-UP TIME	2 sec.			
	REDUNDANCY PARALLEL CONF.	Possible with optional block diode			
INPUT	VOLTAGE RANGE	18 ÷ 36	30 ÷ 36	54 ÷ 70	116 ÷ 170
	EFFICIENCY ( Typ.)	≥ 90 %			
	DRAW CURRENT (NO LOAD)	~ 0.2 A			
	INRUSH CURRENT (Typ.)	~ 80 A			
PROTECTIONS	OVERLOAD	2In x 5ms Shut down duration: 250mS - Automatic restart			
	CURRENT CURVE	CONSTANT			
	OVERVOLTAGE	+ 10% Vn			
	UNDERVOLTAGE	- 50% Vn			
	OVERTEMPERATURE	Shut down; automatic restart after temperature reset			
ALARM FUNCTIONS	REMOTE ON/OFF	YES			
	DC/DC OK	SPDT CONTACT (0.1 A/ 230 Vac)			
	DC/DC Vout MAX/MIN	SPDT CONTACT (0.1 A/ 230 Vac)			
ENVIRONMENTAL DATA	OPERATING TEMPERATURE	-10 .....+40°C			
	OPERATING HUMIDITY	20 .....90% ( NO COND.)			
	STORAGE TEMPERATURE	-20 .....+50°C			
STANDARDS	MARKING	CE			
	DEGREE OF PROTECTION	IEC 60529			
	EMC	EN 61000-6-2 EN 61000-6-4			
	STATIC CONVERTERS	EN 60146-1-2			
	DIMENSION	482*460*220(5U-19")			
DEGREE OF PROTECTION		IP20			
COLOUR		RAL 7035			

## LED INDICATORS

---

VDC AUX1 OK  
VDC AUX2 OK  
IGBT PILOT SIGNAL OK  
OUTPUT UNDERVOLTAGE PRESENT  
OUTPUT OVERVOLTAGE PRESENT  
OVERTEMPERATURE PRESENT  
SELECTOR SWITCH COMMEAND  
GREEN LED ON/OFF

## COMMANDS

---

CONVERTER SELECTOR SWITCH ON/OFF  
OUTPUT CURRENT

## SPECIAL FUNCTIONS AVAILABLE

---

LCD DEVICE ( VOUT & IOUT)  
OUTPUT LOCKING DIODE

  
*A BRAND OF ENERGY SERVICE S.r.l.*

Via Gaetano Donizetti, 109/111 - 24030 Brembate Di Sopra (BG)  
Geller Business Centre - D2 Building

Phone **+39 035 4379962** Fax **+39 035 592935**  
sales@zutronic.it - **www.zutronic.it**

ISO9001:2015

BUREAU VERITAS  
Certification

