

## 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



	<b>MODELS</b>	<b>DC-SD</b>			
<b>OUTPUT</b>	NOMINAL VOLTAGE (V)	12	24	48	110
	CURRENT RANGE	10 ÷ 60A			
	MAXIMUM POWER (W)	720	1440	2880	6600
	RIPPLE NOISE (RMS)	≤ 0.3% Vn			
	V <sub>out</sub> SETTING RANGE	+/- 5%			
	STABILITY	+/- 1%			
	V <sub>in</sub> VARIATION SETTING	+/- 1%			
	LOAD VARIATION SETTING	+/- 1%			
	START-UP TIME	2 sec.			
	REDUNDANCY PARALLEL CONF.	Possible with optional block diode			
<b>INPUT</b>	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			
<b>PROTECTIONS</b>	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			
<b>ALARM FUNCTIONS</b>	REMOTE ON/OFF	YES			
	DC/DC OK	SPDT CONTACT (0.1 A/ 230 Vac)			
	DC/DC V <sub>out</sub> MAX/MIN	SPDT CONTACT (0.1 A/ 230 Vac)			
<b>ENVIRONMENTAL DATA</b>	OPERATING TEMPERATURE	-10 .....+40°C			
	OPERATING HUMIDITY	20 .....90% ( NO COND.)			
	STORAGE TEMPERATURE	-20 .....+50°C			
<b>STANDARDS</b>	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")			
	<b>DEGREE OF PROTECTION</b>	IP20			
	<b>COLOUR</b>	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 & IOU)
- OUTPUT LOCKING DIODE



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Certification

