ET15000-5

15000W ICEFET SOLID STATE FM TRANSMITTERS



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broadcast @xperience

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Exciter (Indium series)	n°1 ETG 500.1 (or equivalent trade mark ETG 500.7, ETG 500.5) in single drive configuration n°2 ETG 500.1 (or equivalent trade mark ETG 500.7, ETG 500.5) in dual drive configuration		
Amplifier	n°3 Amplifier E5000-series		
Combiner	$n^{\circ}1$ 3-Way Combiner IN 5000 - OUT 15000 with an internal loa composed by 3 group of 6 resistance of 800W 50 Ω		
RF output connector	3+1/8"		
Circuit breaker box	4U (on front or rear panel on demand)		
ERAL DATA			
Output nominal maximum power	15000W		
Output power range	1500 - 15000W		
Operating band	87.5 - 108 MHz		
Dimensions: Rack units	32U (40U on demand)		
Dimensions: W - H - D	56.5 - 192.5 - 107.8cm		
Weight	320 kg		
RF power stage technology	ICEFET & ECOSAVING		
Automatic power RF control	Stabilized output power value on the set value		
Overall output power RF stability	+/-0.1 dB		
Cooling system	Forced air-cooling		
Air outlet	On the top. Cooling flow 3250 /4500 m3/h (depending on environment)		
RS232/RS485	Yes		
Points of measure	RF Sample - MPX Monitor		
ITER DATA			
Driving power	330W		
Displayed parameters	A careful analysis of the functioning through detailed measure- ment of currents, voltages, temperatures and powers		
Adjustments	From the frontal panel/from PC		
L-DMOS	n°1		
Cooling fans	n°2 x 24Vdc, 0.56A (on rear panel)		
Power supply	n°1 x 1KW, 44V		
Dimensions: Rack units	20		
AES/EBU input resolution	24bits		
AES/EBU input sample rate	32,44.1,48,96 KHz Automatically selected		
AES/EBU-Analog input automatic changeover	Yes		
L/R audio input level	+15/-10 dBu for 75KHz standard deviation		
L/R level adjustment	Soft adjust 0.1dB steps from front panel		
L/R input impedance	Selectable 10K - 6000		

MPX audio input level	+15/-10 dBu for 75KHz standard deviation	
MPX level adjustment	Soft adjust 0.1 dB steps from front panel	
MPX input impedance	5KΩ selectable	
SCA/RDS audio input level	0 dBu for 75KHz standard deviation	
PILOT amplitude adjustment	Soft adjust 0.05% steps from front panel	
PILOT phase adjustment	Soft adjust 0.01 degree steps from front panel	
PILOT tone frequency	19 KHz	
PILOT tone deviation	7.5 KHz Adjustable	
PILOT tone frequency stability	+/-1 Hz	
THD+N	< 0.05% with 75 kHz frequency deviation	
	< 0.05% with 100 kHz frequency deviation	
	@ 30 Hz to15 kHz, L/R channel	
Pre-emphasis	0/25/50/75 microseconds +/-0.1dB	
FM S/N MPX FCC	82 dB 20Hz - 23KHz - 50uS - ref @ 53KHz - RMS	
FM S/N STEREO CCIR weighted	72 dB Weight-ref@53KHz-Qpk	
FM S/N STEREO CCIR unweighted	72 dB Unweight-ref@53KHz-QPk	
Stereo crosstalk	-65 dB or better @ 1KHz	
PLL lock time	<10sec	
Intermodulation distortion	<0.05% Measured with two of tones 1KHz & 1.3KHz, ratio 1:1 a 100% modulation	
Frequency deviation	+/- 75 KHz 0.1 dB steps adjustable	
RF frequency steps	10 KHz	
Phase response	0.1 degree from linear phase; 53kHz to 100kHz	
Modulation capability	+/-250 KHz	
External reference	On demand (10MHz)	
LIFIER DATA		
Output nominal maximum power	5000W //////////////////////////////////	
Output power range		
Displayed Parameters	A careful analysis of the functioning through detailed measure- ment of currents, voltages, temperatures and powers	
Adjustments	From the frontal panel/from PC	
L-DMOS	n°16	
Cooling fans	n°6 x 24Vdc, 2A (on rear and front panel)	
Power supply	n°3 x 3KW, 50V	
Dimensions: Rack units	$\mathcal{A} = \mathcal{A} = $	
BINER DATA	XXXXXX//////////////////////////	
Displayed Parameters	A careful analysis of the functioning through detailed measure- ment of currents, voltages, temperatures and powers	
Adjustments	From the frontal panel/from PC	
Cooling fans	n°3 x 24Vdc, 2A (on front panel) and n°3 x 24V, 1A (on rear panel)	
Dimensions: Rack units	40	

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Power supply

380V or 400V, Threephase + neutral wire 50-60Hz * 210V, Threephase (WYE without neutral) *

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	* to be specified when placing the order
Power consumption	24KW
Current consumption @230VAC/Threephase	63A
Current consumption @380VAC/Threephase	36A
ENVIRONMENT	
Temperature range (operating)	-5 - +45 °C
Temperature range (non operating)	-20 - +55 °C
Humidity range (operating)	95% @ 40 °C (not condensing)
Humidity range (non operating)	90% @ 55 °C
Altitude range (operating)	< 3000 meters
Altitude range (non operating)	< 15000 meters
TELECONTROL & TELEMETRY	
Remote control	Yes
Remote Control at clean contacts	Yes
SNMP option	Yes (external)

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