

/ Perfect Welding / Solar Energy / Perfect Charging



TPS 600i

/ MIG/MAG welding system



/ A real powerhouse of a device now completes the upper end of the TPS/i family from Fronius. The new power source can supply up to 600 A of welding current at a welding voltage of 44 V and a 60% duty cycle. Thanks to its high welding power, the TPS 600i is particularly well suited to welding within the heavy steel construction and mechanical engineering sectors, as well as in all applications where it is necessary to work with a single-wire process and an extremely high deposition rate is required.

ENERGY-EFFICIENT, RESOURCE-CONSERVING COMPLETE SYSTEM

/ With components engineered to perfectly meet the requirements of high power applications, the TPS 600i is a complete system that manages to be both energy-efficient and resource-conserving at the same time.

MTW 700i HIGH PERFORMANCE WELDING TORCH

/ A new contact tip geometry and the water-cooled gas nozzle reduce heat absorption by up to 80%. Even after prolonged periods of welding, the torch quickly returns to room temperature. The carefully thought-out wearing parts system makes cleaning easier and lowers the wearing part costs.



/ MTW 700i welding torch

CU 1400i PRO MC

/ The CU 1400i Pro MC cooling unit is optimally adapted to the TPS 600i and is easily capable of dispersing the thermal load typical of high performance welding. Furthermore, power savings are achieved by the dynamic cooling circuit control of ECO mode. The pump speed is regulated based on the coolant return temperature.



/ CU 1400i Pro MC cooling unit

TECHNICAL DATA	TPS 600i	TPS 600i NC	TPS 600i (600 V) NC
Mains voltage	3 x 400 V (+/-15%)	3 x 380 – 460 V (-10/+15%)	3 x 575 V (+/-10%)
Welding current	3 – 600 A	3 – 600 A	3 – 600 A
Welding current at 10 min/40°C (104°F) 10 min/40°C (104°F)	600 A 60% D.C. 500 A 100% D.C.	600 A 60% D.C. 500 A 100% D.C.	600 A 60% D.C. 500 A 100% D.C.
Open circuit voltage	71 V	85 V	73 V
Output voltage (MIG/MAG)	14.2 – 44 V	14.2 – 44 V	14.2 – 44 V
Degree of protection	IP 23	IP 23	IP 23
Dimensions l/w/h	706 x 300 x 510 mm 27.79 x 11.81 x 20.08 in.	706 x 300 x 510 mm 27.79 x 11.81 x 20.08 in.	706 x 300 x 510 mm 27.79 x 11.81 x 20.08 in.
Weight	50 kg / 110.23 lb	47 kg / 103.62 lb	42 kg / 92.59 lb
Certifications	CE	CE, UL/CSA	UL/CSA



/TPS 600i – The new powerhouse from the TPS/i family

POWER SOURCES	ITEM NUMBERS
TPS 600i	4,075,177
TPS 600i / nc	4,075,177,800
TPS 600i / 600V / nc	4,075,177,970
TPS 600i PULSE	4,075,181
TPS 600i PULSE / nc	4,075,181,800
TPS 600i PULSE / 600V / nc	4,075,181,970

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WE HAVE THREE DIVISIONS AND ONE PASSION: SHIFTING THE LIMITS OF POSSIBILITY.

/ Whether welding technology, photovoltaics or battery charging technology – our goal is clearly defined: to be the innovation leader. With around 3,700 employees worldwide, we shift the limits of what's possible - our record of over 800 granted patents is testimony to this. While others progress step by step, we innovate in leaps and bounds. Just as we've always done. The responsible use of our resources forms the basis of our corporate policy.

Further information about all Fronius products and our global sales partners and representatives can be found at www.fronius.com

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